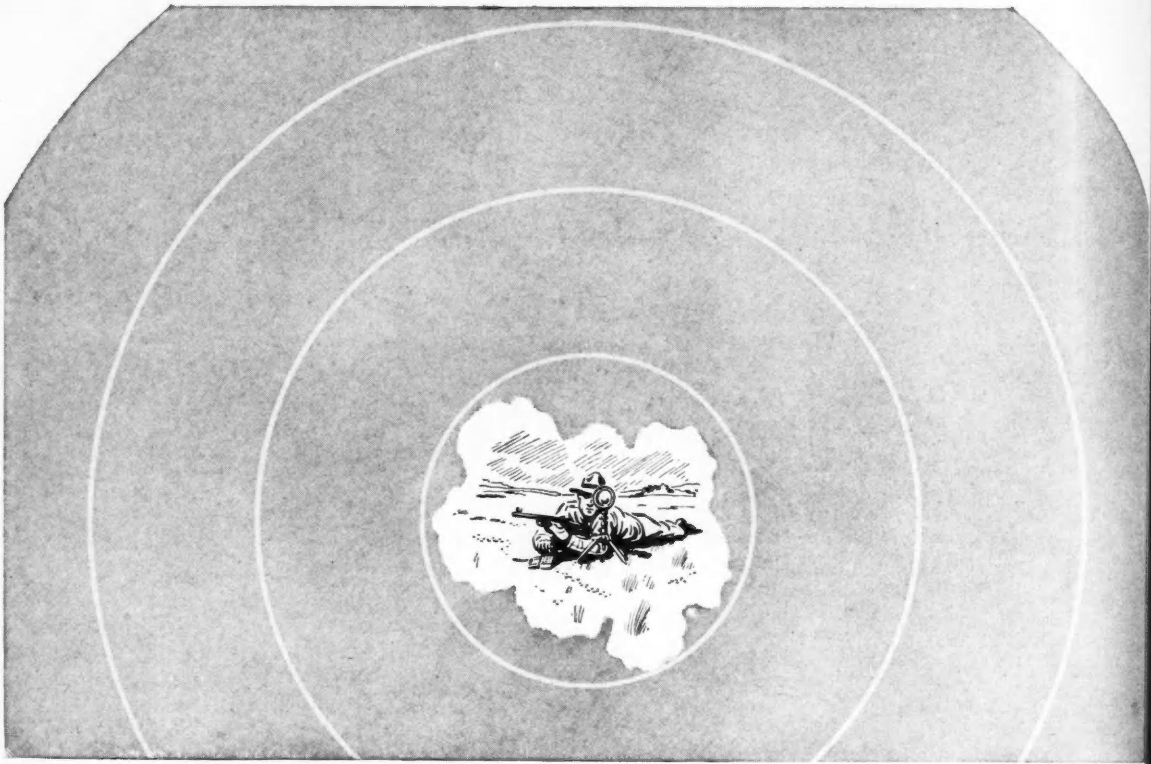
AMERICAN RIFLEMAN

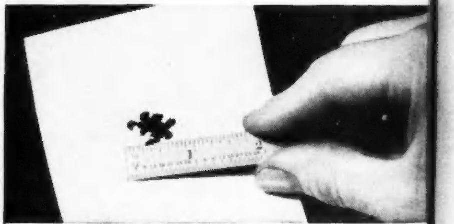


Why Peters packs the possibles

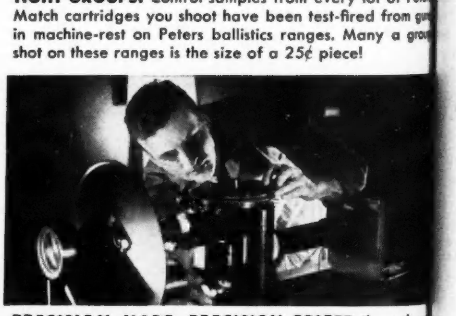
YOUR FIRST SHOT may be a "pinwheel," but what about the others? Whether the range is 50 feet or 200 yards, the rest of that possible depends on your rifle, on your hold, on your squeeze, on your eye, and *perfect uniformity* in your ammunition!

All other factors equal, Peters match ammunition packs the uniformity that means possibles! Peters experts run exhaustive tests on every lot before it leaves the factory. They measure case and bullet for *micro-close* tolerances. They check for *uniformity* of crimping, *sameness* in primer ignition, the exact amount of the *right* powder. And then they test-fire these Peters match cartridges on ballistics ranges to make sure that every "lot" you buy will *really pack the possibles!*

Back up your good aim! Load up with Peters "Police Match" or Peters "Dewar Match" 22's the next time you go match shooting. And for target practice, try Peters "Target" 22's.



TIGHT GROUPS! Control samples from every lot of Pete Match cartridges you shoot have been test-fired from gu in machine-rest on Peters ballistics ranges. Many a grou shot on these ranges is the size of a 25¢ piece!



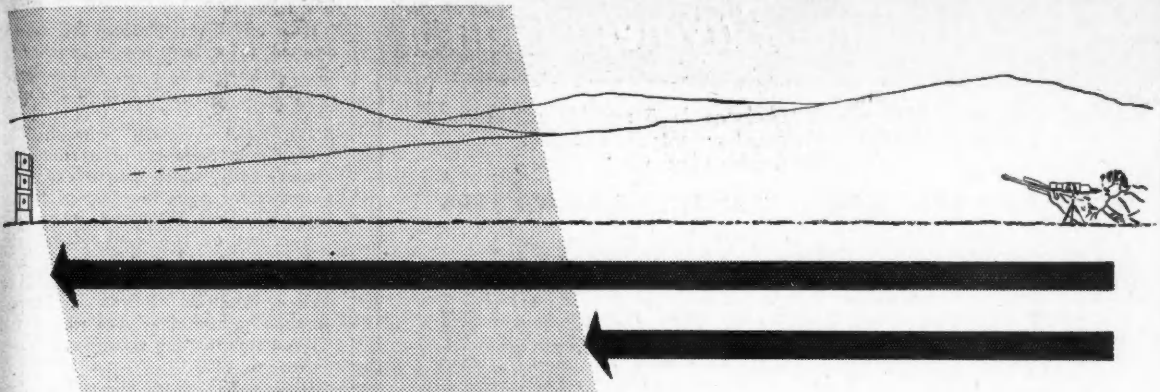
PRECISION-MADE, PRECISION-TESTED through through . . . for perfect uniformity in bullets, cases, prim and powder. Peters match ammunition is the same from ca tridge to cartridge, box to box, case to case!

PETERS
PACKS THE POSSIBLES

PETERS CARTRIDGE DIVISION — *Remington Arms Company, Inc., Bridgeport 2, Conn.—"Dewar Match" and "Target" are Reg. U.S. Pat. Off.—"Police Match" is a trademark of Peters Cartridge Division.*

DU PONT

50 PETERS
DEWAR MATCH
22 LONG RIFLE
POLICE MATCH
TARGET



ONE CLICK TO MIRAGE

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● Special provision for fast, easy, and precise focusing is an exclusive feature of the new Bausch & Lomb 60mm Spotting Scope. Rough focusing is accomplished by pulling or pushing the eyepiece past click stops; fine focusing by rotating the knurled eyepiece. With the scope focused on the target, it is necessary only to pull the eyepiece to the next click stop for accurate focus on mirage in front of the target. Pushing the eyepiece back one click brings the target back into sharp focus. You use only the right hand in the complete operation. You'll find extra convenience also in the exclusive long eye-distance B&L eyepieces. (Almost one inch on the 20X. You get the full field even while wearing shooting glasses.) At $95 the new B&L 60mm Scope is the best performer—and the best bargain—in spotting scope history. Write for new descriptive folder. Bausch & Lomb Optical Co., 276-X Lomb Park, Rochester 2, N. Y.

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Marlin Model 36A Rifle, .30/.30 or .32 Special Caliber	$ 69.75
Marlin Model 36 Carbine, .30/.30 or .32 Special caliber	58.75
Fabrique Nationale De Luxe Mauser Sporting Rifle, 30-06 or .270 caliber, peep sight	186.80
Same without rear sight	174.00
Stevens Model 325, .30/.30 caliber, bolt action Carbine	40.00
Stevens .22/410 over and under gun	31.25
Remington Model 31TC Trap Gun, 12 gauge, with Ventilated Rib	173.50
Ithaca Model 37 Shotgun 12, 16 or 20 gauge. Plain Barrel	83.50
Winchester Model 21 Double Barrel Shotgun 12 gauge skeet grade	252.50
L. C. Smith double barrel Shotgun, field grade	96.10
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Weaver K4, 4 power	45.00
Weaver K6, 6 power	48.50
Weaver J2.5, 2½ power	22.50
Weaver J4, 4 power	27.50
Weaver G4, 4 power	9.75
Weaver G6, 6 power	12.50
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New Bausch & Lomb Prismatic Spotting Scope 60 mm, Objective 20-power	95.00
Argus Super Spotting Scope	74.50
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Colt Police Positive Special Revolver, .38 Special, .38 Police Positive or .32 Police Positive Caliber	65.00
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Colt Government Model .45 Automatic Pistol	65.00
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Colt Target Model Woodsman Pistol	70.00
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Unertl Varmint Scope, 6 & 8 10X	75.00
Unertl Target Scope, 1 inch objective, 8 & 10 power	58.00
Unertl Target Scope, 1¼ inch objective, 10, 12 and 14 power	78.00
Unertl Target Scope, 1½ inch objective, 10, 14 and 20 power	90.00
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Fecker Target Scope, 1¼ inch objective, 10 & 12 power	75.00
Fecker Target Scope, 1⅝ inch objective, 10, 16, 20 & 24 power	98.50
Fecker "Woodchucker" Scope, 1.2 inch objective 4.5, 5.5 & 7 power	62.50

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Bausch & Lomb Zephyr Light Hard Coated Lens	
6 x 30	186.00
7 x 35	186.00
8 x 30	204.00
9 x 35	204.00
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Carl Zeiss Light Weight Hard Coated Lens	
6 x 30	138.00
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Wollensak 6x30 Binocular	90.00
Universal 6x30 Binocular	102.00
Sard 6x20 Sportsman Binocular	198.00
Kollmorgan "De Luxe" Monette Monocular	49.50
Suede Case for above	1.75
Ray Ban Shooting Glasses	15.00
Ray Ban Kalichrome Glasses	17.50

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Dept. R

RIFLEMAN WORDS • • • •

Each month this "lexicon for shooter devoted to a few words peculiar to th shooting game which may be puzzling to th newcomer. All words defined are used in current article.

BOBBER—A remotely controlled targ usually in the form of a silhouette of man's body, which can be exposed to th shooter for short intervals of time.

CHECKERING TOOL—A small hand to with one or two rows of cutting te that is used to equally space the sma crosswise grooves of the checkered patte on a gunstock. Power checkering too have also been developed which use circ lar cutters rotating at high speed to cut th grooves.

CROSS BOLT—A rod or bar, moved at rig angles to the axis of bore, which loc or adds strength to the locking of t closed breech. On some guns with movable bolt, the cross bolt is also u to lock the bolt open. Cross bolts ha been used for years in some designs double-barrel break-action shotguns.

DECAPPING PIN—A rod with a reduc diameter section or pin on the end. T smaller end of the rod is entered, throu the mouth, into a cartridge case and t pin extends through the primer poc flash hole from the inside. With the of a loading tool, arbor press, or sim a blow from a hammer on the end of t rod, Boxer-type primers are forced out the primer pocket. The process is know as decapping.

DRIFT—The deviation to the right or l of the line of bore of the bullet in fl Drift is the result of gyroscopic action the spinning bullet. The right-hand tw in most modern American-made ri causes the bullet to drift to the right.

FLOORPLATE—A metal covering fitted the underside of a rifle magazine whi forms the bottom of a magazine well. It usually held in place by a spring-actua catch. In most bolt-action rifle designs spring for the magazine follower is tached to the floorplate.

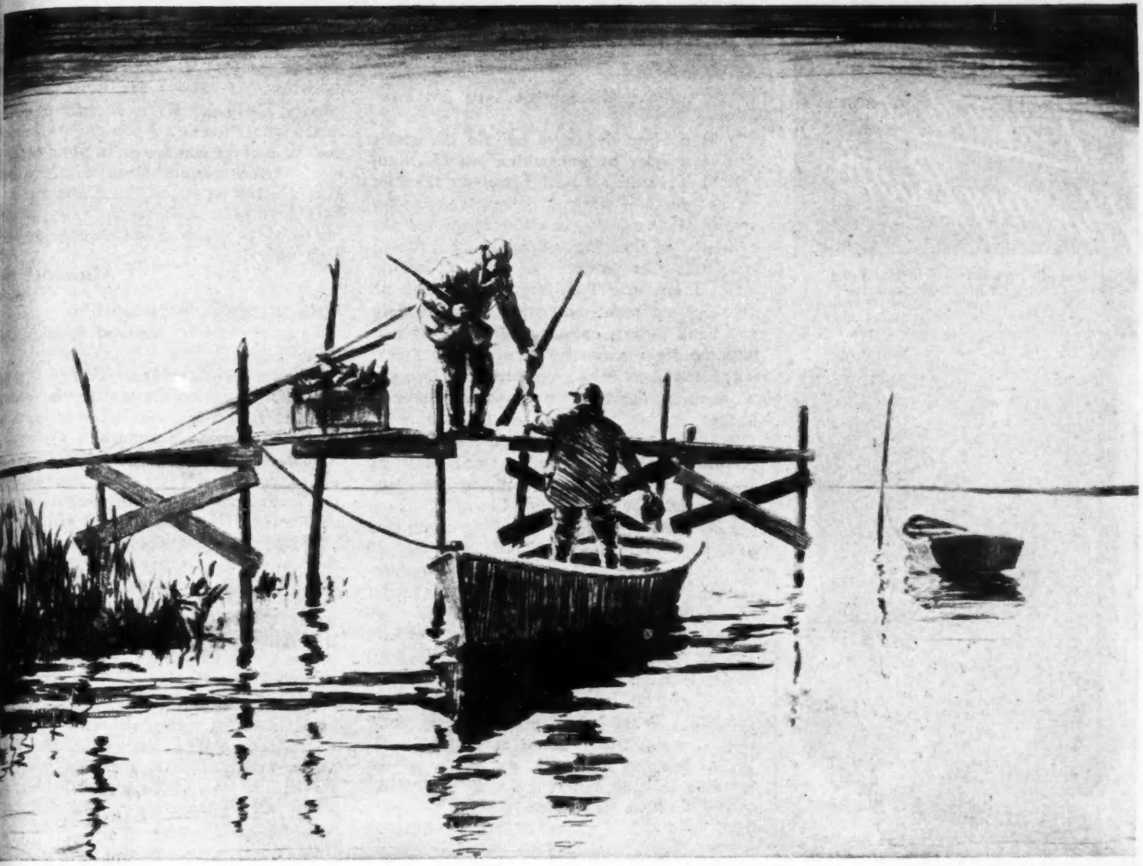
MAXIMUM CHARGE—A weight of pow which, in combination with specified a munition loading components, produces maximum chamber pressure consider safe for the gun in which the load is fir

MIRAGE—An atmospheric phenomenon p duced by the presence of a stratum of air of varying density and refracti power. The activity of mirage 'waves' used by riflemen as an indication of wi direction and velocity.

SURPRISE FIRE MATCH—A type of tar shooting in which the target is exposed short periods of time and is fired u without verbal command.

WADCUTTER BULLET—A bullet wit sharp shoulder on the forward end. W cutters are cylindrical in shape althoug short rounded teat may sometimes be on the forward end. A semi-wadcutter a short nose, but the forward shoulder is left sharp. Wadcutter bullets, w fired through a paper target, leave cl round holes approximately the diam of the bullet.

WROUGHT IRON—Once known as w iron, it is a commercially pure (less t 0.3 percent carbon) malleable iron f which the slag content has not been moved. It is tough, soft, and cannot hardened by rapid cooling.



Churchill Ettinger

"November Morning"

The hunters set out in the crisp fall air. Keen eyes scan the bleak gray sky for game. Every sportsman knows the tingling anticipation of moments like this.

But today game is none too plentiful in many places. It's up to all of us to help preserve wildlife and assure future good hunting. Start now. Limit your bag, and join and support local and national organizations for game restoration and conservation.

FREE BOOKLET ABOUT SHOOTING...
Write today for information on how to start a rifle club in your own community...how to teach your group to have more fun shooting a rifle...how they can win Ranger Shooting Emblems. No obligation. Address—Sportsmen's Service Bureau—Dept. A-8, Sporting Arms & Ammunition Manufacturers Institute, 343 Lexington Ave., New York 16, N. Y.

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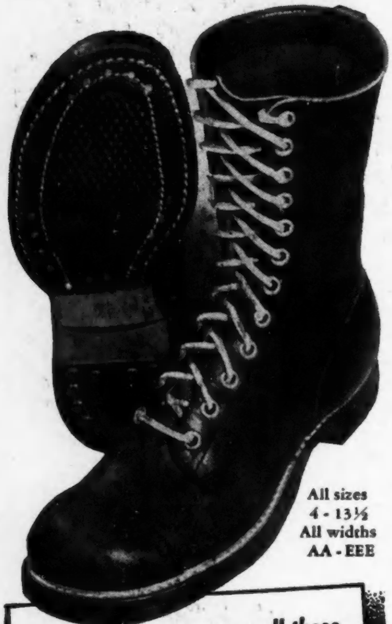

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Regular shoe size and width__________
AR-11

Ricochets . . .

HEADSPACE

Albuquerque, New Mexico

Editor:

It is not my desire to belittle the series of fine articles by gunsmith Tom Gresham (DCM Treasure). Still I would take him to task for his extreme overcaution in the matter of counseling, in such dire terms, the necessity of keeping abrasive cloth away from the rear surfaces of the bolt-locking lugs. I am sure Tom knows that, with no polishing equipment other than abrasive cloth and hand power, one can work all day and half the night without even removing a few ten-thousandths from steel surfaces, not even to mention the 'few thousandths' he talks about.

But what is even more important, why do you print such remarkably good stuff as Hatcher's article in the December 1946 issue only to undo it with things like this? Tom plainly tells everybody, including thousands of our newer members who really have had no chance to learn better, that a few thousandths excess headspace will blow them to kingdom come.

Remember how Hatcher progressively opened the headspace on a Springfield until he was firing standard loads with excess headspace of twenty-five or thirty thousandths? What happened? Precisely nothing. I thought that would once and for all lay to rest the old myth and bogey of the extreme danger inherent in a 'few thousandths' excess headspace.

Allan Radin

COMMENDATION

Lubbock, Texas

Editor:

In my opinion, the Rifleman is getting better each month, and you fellows deserve the sincere thanks of every gun owner, present and prospective. Permit me to congratulate you particularly on your research articles. Your series on special calibers, although necessarily a bit uneven, is highly informative, vastly extending the vicarious experience of the average reader and enabling him to make an intelligent choice for his own use.

T. Earle Hamilton

71,000,000 DUCKS

Los Angeles, Calif.

Editor:

The article, "Missing 71,000,000 ducks," by F. Wallace Taber (September) is the first nationally-published article that has come anywhere near telling the truth in reference to hunting in Mexico and the so-called market hunters who, literally speaking, murder the ducks in vast quantities.

The American sportsman should have the truth. Facts and figures should clarify a lot of things, and show up the things that just don't exist. It's time to stop blaming the Mexicans for those 71,000,000 missing ducks!

A. W. Jones

Mazatlan, Mexico

Editor:

Believe me, your survey of the Mexican duck hunting is absolutely 100 percent accurate, and considering that the total legal and illegal kill in the Mexican Republic amounts only to less than half million du
per season, I believe the U. S. problem
missing fowls should be looked into and
rected where the heavier shooting takes pla
that is, and as mentioned in your article,
the United States and Canada, where annu
kills are estimated in 24 million and 5 mi
lion birds per season respectively, not coun
ing cripples which should amount to a ve
high figure.

Emilio C. Au

EDITORIALS

Medical Springs, Ore.

Editor:

I haven't seen evidence that you are g
ting enough commendation for the editori
of C. B. Lister. I have followed them, m
or less brokenly, in borrowed copies of t
Rifleman during the war years. They ha
added point and force from appearing in
publication having a connection, if somewh
attenuated, with the government machi
and are so keen, and cogent, and right, th
they deserve a larger circulation than t
Rifleman can give them.

W. B. Davi

HUNTING STORIES

Seattle, Wash.

Editor:

For what it is worth, I believe that yo
hunting stories, except the rare ones such
Rosenberg's which emphasize the firear
angle, are redundant, the field being bei
covered by the hunting and fishing ma
zines. Of course, I am more a collector th
a hunter.

John W. Pomeroy

CAT HUNTER

San Francisco, Calif.

Editor:

In the September issue of the Riflem
page 17, it was stated that Giles Gosw
had bagged 472 'predators' and I quo
"That is probably more of these killers th
can be claimed by any other hunter of
time."

Without any attempt to minimize
splendid achievement, for such it is,
merely to keep the record straight, you
informed that as early as 1938 our state l
hunter, Jay Bruce, had already killed
mountain lions plus having taken a cons
erable number alive. To this can be add
a goodly number of bear, bobcats, etc.

Mr. Bruce retired as official lion hun
of California when he killed his 500th l

W. T. Werschkul

WIND IN THE WEST

New York, New Yor

Editor:

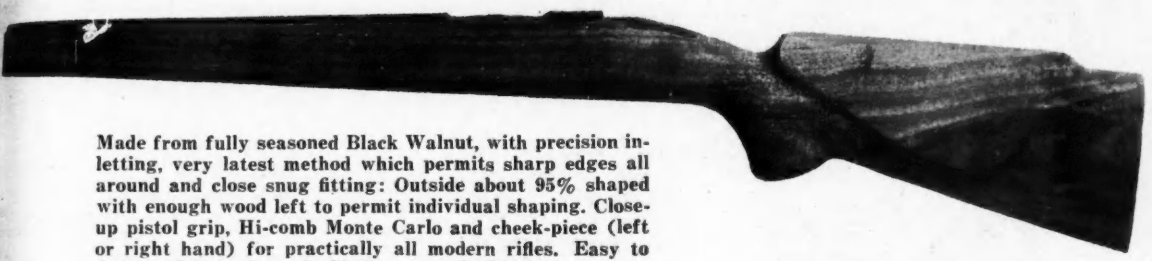
I was very much interested in Jim Be
man's article, "Wind in the West Aga
in the September Rifleman. I think he
done a swell job of depicting the ante
restoration and giving us a picture of
present state of this most interesting ani
However, I was shocked at the inaccur
of the following statement, fourth paragr
of the article:

"The male's fancy headgear *usually* me
ures 19 and a fraction inches along the
side curve." This is a gross mis-statem
of fact. *North America Big Game,*
lished in 1939 by the Boone and Cro

(Continued on page 6)

Flaig-ACE

"PENNSYLVANIA BLACK WALNUT INLETTED STOCKS"



Made from fully seasoned Black Walnut, with precision inletting, very latest method which permits sharp edges all around and close snug fitting: Outside about 95% shaped with enough wood left to permit individual shaping. Close-up pistol grip, Hi-comb Monte Carlo and cheek-piece (left or right hand) for practically all modern rifles. Easy to finish. Standard grade $6.00; xx grade $8.00.

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NEW F-N actions with 30-06, 257, 270 Chrome Moly 24" sporter barrel fitted, white not blued	$73.00
F-N actions with 220 Swift barrel or 22-250 cal. sporter or med. heavy, box shortened, white 25 in.	78.00
F-N Bolts stripped new low scope	12.50
F-N complete bolts new " "	22.00
All parts for F-N actions in stock.	
Rem 37 AR 22 cal new	113.60
63 Win autos 22 cal.	59.75
Sav 745 auto 12 ga	99.85
37 Ithaca's 16-12 ga, 20 ga	83.50
HD Hi-Standard 4½-6.3-4"	51.00
37s 20, 16 and 12 ga	160.00
52 Win HB. 22 cal without sights	89.15
Model 21 WIN Skeet 12-28" B-T S-T Select Ejec. new, ea.	252.50
Krag actions complete good	17.50
Krag actions with 4 gr Spr. barrels fitted new 23" no sights, not blued	34.00
69 Win T. 85 A.R. sights	27.00
Colts 22-38-45 Units	40.00
Win 62 22-cal Short new	39.75
87 Stevens auto 22 cal	27.95
I-J Shot-Guns S-S .410, 12, 16, & 20 ga., new, ea.	22.50
75 Win Target 22 cal, new	54.50
45 Colt auto Com. 38 Colt Super	65.00
Colt Woodsman 22 cal 6"	75.00
S&W K-22	65.00
38 S&W M&P 2.4.5.6"	56.50
22 cal HD Hi-Standard 4½, 6¾"	51.00

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Plaid Jackets, 32 oz.	18.00
Scarlet Red Coat, 32 oz.	19.50
Scarlet Breeches, 32 oz.	13.50
Plaid Breeches, 32 oz., doubles	14.50
Plaid Breeches, single, 32 oz.	11.50
Plaid Shirts, 14 oz., $6.50; 20 oz.	8.50
Scarlet Red Shirts	7.50

UNERTL & FECKER SCOPES

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Unertl Big-Game Scope, coated, 2½X Hawk	52.00
Lyman 4X Challenger Scope	85.00
Leupold rifle scopes, 2¼X	57.50
Lyman Alaskan coated	60.00
G-88 Rifle scopes, 2½X	30.00
Stith Bear Cub Scope	55.00
Texan scopes coated, 2½ Ex.	50.00
Weaver K4 $45.00; K2.5	37.50
Weaver G4 $9.75; J2.5	22.50
Weaver K-6 $48.50; G-6	12.50
Dockendorff Gold Cross-Wire	5.75
Buehler Safeties $6.00; Mounts	15.00
Redfield 70 sights most numbers	9.50
Redfield 102 sights most numbers	6.75

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Redfield mts. 12.50 to	16.50
Redfield Olympic rear sights R-37	17.50
King Pike Mounts	17.50
Echo mts. $17.50; Pachmayr mts.	20.00
Lyman ramp sights, all sizes	6.25
Flaig ACE Ramp sights, complete	7.00
Lyman 48 sights, most numbers available $12.50-	14.00
Lyman 17A $3; Lyman 56 sights	8.00
Vaver Sights 52 Win 37 Rem	20.00
Tru-Line Jr. Loading tools	22.00
B&M Loading Tools #28 IMP.	19.50
Ideal Powder Measure No. 55	10.00
Sheep Skin holsters 4-5-6" flap	1.50
Flaig-Ace Holster, half moon type, zipper closing. Inside finest sheepskin, outside soft live leather, prepaid	4.50
Flaig-Ace Sheep Skin Cases	10.00
Sheep Skin Cases scope size	12.00
Sportsmen's Gun Finishing Kit	3.50
Polychokes fitted	14.75
Super Poly (Send barrel only)	18.75
Shot-Gun Cases Solid Cowhide, finest grade made 26-32"	18.00
L&C Lifetime Holster, Cow-hide 6", each	3.25
Spr. trigger guards milled new	3.00
SPR. Snipers bolt stripped new	6.50
Complete	10.50
SPR. Triggers new $1; Extractors	1.00
Mauser F-N actions new bolt altered low scope new safe	45.00
(Special price in lots)	
M 1 Carbine Magazine, v.g.	1.00
Mauser 98 firing pins new	3.00
Mauser 98 stripped bolts v.g.	5.00
Mauser 98 issue stocks	3.00
Mauser 24" issue barrels v.g.	5.00

★

H&M one-piece cleaning rods 22-30 cal "Best Made"	3.00
Enfield trigger guard stripped	1.50
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Arched Housings, New	2.00
S&W barrels 17 M. new	6.00
S&W cylinders new	2.50
8 mm Mannlicher ammo 200 gr. S.P. box	3.15
33 Win. ammo, box 200 gr.	3.25
Colt 45 ammo late per 100	4.00
30-06 M.C. ammo late date, 100	7.00
M.I. carbine ammo, 100	6.00
32 R.F. $2.00 100; 32 R.F Long 100	2.20
32-20 ammo, lead, box	3.30
25-20 S.P. $2.70 box; 38-40 S.P.	$3.80 box
DuPont 3031, 4227, 4350, 4064, 4198, 4340, lb.	1.80
DuPont #6 4759, can	1.10
Speer bullets 22 cal, 45, 50, 55	2.80
Sierra bullets 22 cal, 45, 50 gr	2.80
Speer 25 cal 60-100 gr.	3.80
Speer 30 cal 110 gr, 100	4.00
Speer 7mm 145" $4.00; 8mm Speer Bullets 125-170 gr.	4.20
Primers 1½ 6½ 9½ Rem Western 8½, M Peters 12-20, 120 Win.	6.50
Sun-Burst P.G. caps .60; doz.	4.80
Flaig Ace Trigger Shoe, Mauser 98, F.N. or Military	2.00
Springfield 1¼" Issue Swivels with base, new, dozen	2.00

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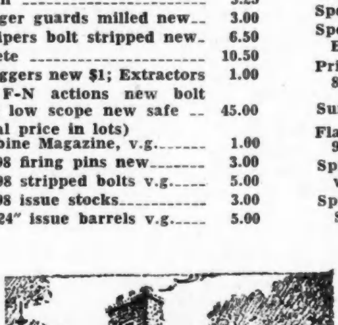

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(Continued from page 4)

Club, lists 131 heads of pronghorn antelope. The world's record head, the famous Potter trophy, measures 20 5/16 inches. Only nine of the 131 heads are better than 17 inches.

WILFORD BAKER

Greeley, Colo.

Editor:

Berryman has added at least four fictitious inches to the antelope's actual average horn size.

D. B. SNYDER

Callaway, Nebraska

Editor:

Perhaps "Wild Animals of North America" is wrong but their antelope and the one on page 34 of the September issue don't look just the same.

JOHN M. TRYON

Boise, Idaho

Editor:

The antelope on page 34 has his horns on backwards. At least the ones I saw while riding in Eastern Montana on the Big Porcupine Creek wore theirs the other way!

C. P. FOSTER

• *The average adult antelope does have horns a good deal different from those shown by Jim Berryman in the September issue. That particular head happens to be the world record, and the drawing was made from a photograph. The horns curve in a direction almost opposite to that of the average pronghorn.*—Ed.

Laramie, Wyo.

Editor:

The American antelope does not have the characteristic "true" horn of the ruminants. It is composed of matted hair over a bony core. "True" horn is an epidermal fiber.

RICHARD W. GERHARDT

Jackson, Mich.

Editor:

It was disturbing to see, right at the beginning of Jim Berryman's article, a statemen implying that according to students zoology the pronghorn is the only ungula found in North America. Mr. Berryma has been misled. The ungulata, or hoofe animals, are represented in North Americ by four families, the peccaries, the deer, th antelope, and the oxen and sheep.

FRANK AMMERMANN

HEAVY LOAD

Commerce, Texas

Editor:

Hate to remind you of an error but as skeet shooter I just couldn't help notice —October issue, page 17, last paragrap "over-the-counter skeet loads (Winchest Ranger, 3 dram load of powder and 1 ounces of number 9 shot)."

Sorry, but its $1\frac{1}{8}$ ounces. Wish tuh he at times I had $1\frac{1}{2}$ ounces of shot.

ED SHERER

BULLSEYE

Orinda, Calif.

Editor:

Here's a tip you might like to pass on other readers: The picture of the exper mental 25-foot junior rifle target on pa 55 of the September RIFLEMAN makes excellent target for indoor dry-firing wi a rifle when set up about 7 feet from th shooter.

K. C. BEEMAN

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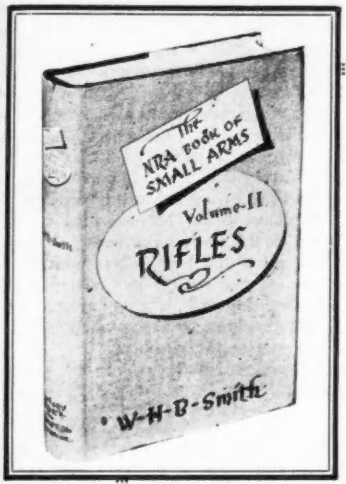

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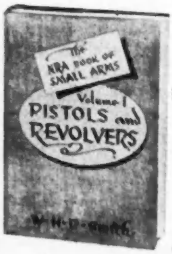

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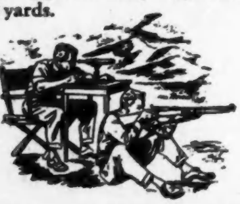

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Incidentally . . .

As many as three thousand pieces of mail pass through our mail room during a working day. Most of them deal with one phase or another of 'normal' Association activities—membership, clubs, Dope Bag queries, RIFLEMAN comments, and whatnot. But there is a small percentage, as in any organization's mail, which is frankly critical. People who do not agree with NRA policies, or who feel that their interests have not been served as well as they might, want a frank answer to one question: What does the NRA give them for their membership dollars? We received a letter the other day from a member in one of the central states, which is fairly typical. Wrote Mr. MLH: "One of our (club) members wrote to you pertaining to a certain target. It took three months to get an answer. It took three months . . . to get my last renewal correct. First you cut my subscription a month, then you made an error in address.

"Now," he continued, "you have defaulted on the Camp Perry issue . . . You had time to call for free help to man Camp Perry. With hundreds of men at Perry there would have been more than enough to do all the work, run the school, and the National Matches. Our club would have furnished several men.

"The August RIFLEMAN states that membership will be increased. On first reading it I passed it up, only promising myself not to renew. But . . . the more I thought of it, the more I thought you should know just how I feel. What are we now getting for . . . our annual NRA dues?"

☆ ☆ ☆

As he often does when letters like this come in, Executive Director C. B. Lister replied personally to Mr. MLH. Here, in part, is what he said:

"In the first place, it is true that pieces of mail coming in to the office are sometimes improperly handled, or reply is delayed. I don't know what the labor situation is in your city, but in Washington during and since the war there has been a tremendous turnover as people have switched from one job to another . . . We still have a ten to fifteen percent monthly turnover. Under these conditions, and handling as much mail as we do, it is impossible to avoid occasional mix-ups. However, I honestly believe that we have no more trouble in this respect than the average business organization, and I know from personal experience . . . that we handle our subscriptions in a fraction of the time considered satisfactory by other magazine publishers.

"Now, as to our 'defaulting' on Camp Perry. It apparently has not occurred to you that there would never have been a Camp Perry if there had not been a National Rifle Association to put it over in the first place and keep fighting for it year after year . . . There certainly will never be another Camp Perry unless the shooters of America support the National Rifle Association. . . . As a matter of fact, if there were no National Rifle Association, no American citizen today would be allowed to own a gun of any description unless it was registered with the Department of Justice and he had the permission of his local police to possess the weapon.

AMERICAN RIFLEMAN

"You ask: 'What are we getting for our membership fee?' Here are a few of the things you (and all other shooters) are getting:

"Organized clubs, registered tournaments, national and international matches, target-grade arms and ammunition, freedom from laws against ownership of guns, surplus arms at bargain-counter prices, a monthly magazine, free issues of service rifles and ammunition. All of these things you found when you came into the shooting game and, human nature being what it is, took for granted. Actually, they are dividends which you get year after year in return for an annual insurance premium of a few dollars per year paid to the NRA. Even at the new rate of $4 per year, that insurance premium costs the shooter just about a penny a day. I wonder if you had thought of the picture from this viewpoint?"—J. S.

THE AMERICAN RIFLEMAN

COVER

For the first time, the RIFLEMAN'S series of big-game covers moves on to another continent, another kind of game . . . to give AR readers a glimpse of Africa's fabulous lion country. In the background, beyond the deep-shadowed mimosas, lie the level plains with their herds of antelope. The two great cats, pictured as they hide from mid-day heat, are in the habitat group displayed by New York's great American Museum of Natural History. Only a part of the group is shown in the Kodachrome, which was made by the American Museum's staff photographer.

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The
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LUME 96 NUMBER 11

NOVEMBER 1948

Well, Well! 10
AN EDITORIAL

Beginner's Luck 11
BY ARTHUR COOK

Report from DCM 14

Olympic Equipment 15
A PICTURE STORY

Essential Handloading Details 18
BY HOSEA SARBER

Business of Information 21
BY EDWARDS BROWN, JR.

Happy Hunting Grounds, Conclusion: New Mexico 25
BY JIM BERRYMAN

Brush Shooting 28
BY FRANCIS E. SELL

Outdoor Records 30

DCM Treasure, Conclusion 33
BY T. B. GRESHAM

Tomorrow's Match Program, Conclusion 37
BY C. B. LISTER

8 MM.-'06 Wildcat 40
BY BYRON E. COTTRELL

Old Coach 41

☆ ☆ ☆

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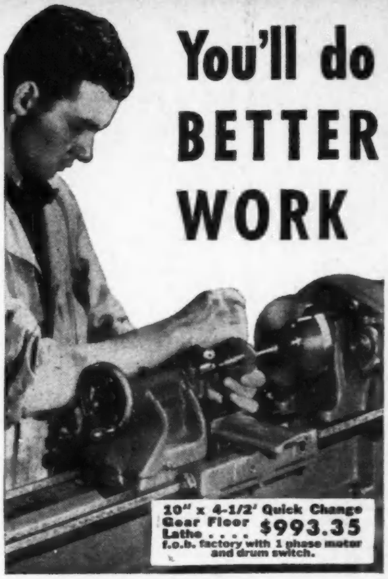

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WELL, WELL !

Mr. James V. Bennett, Director of the Justice Department's Bureau of Prisons, must have surprised a lot of people on October fifth. He spoke that day before the annual meeting of the Bureau of Rehabilitation.

Despite the fact that *spectacular* crimes get so much attention in newspapers and radio broadcasts, said Mr. Bennett, great progress is really being made in improving the crime situation in the United States. This statement must have been disconcerting to that sizable group of feature writers, columnists, and do-gooders who have been so assiduously telling the world that America's moral standards have gone to pot and Americans are literally turning to crime in droves. But wait! Mr. Bennett went on to say that England has shown a thirty percent increase in crime in the first six months of 1948 as compared with the same period in 1947! *There* was the left hook and the hard right cross that must have sent the viewers-with-alarm back to their corners groggy and glassy-eyed! How can they *now* point to England's police-state type of control of personally owned firearms as an example for America to follow if we would equal England's crime record? What argument do the anti-gun reformers *now* have to offset the uncomfortable fact that Switzerland (which requires practically every able-bodied male to keep a gun in his home) has always had the lowest crime rate in Europe *not* excluding England?

An aroused public sentiment is certainly desirable to assist the increasing age-old battle of society against its criminal elements. Basically, however, the need for this aroused sentiment is to insure that police departments operate efficiently; that the courts operate efficiently and apply fitting penalties already provided by law; that the police and the courts be kept clear of politics and cleaned of underworld collusion; that parole boards function as the guardians of society rather than as doting 'uncles' to the criminal, and to stress that the roots of crime are bedded in those conditions of home life and community life which sow the seeds of criminal activity rather than the seeds of good citizenship.

We have long wondered if these purposes were being best served by merely broadcasting information concerning 'crimes reported to the police.' Criminal statistics are complicated things capable of wide misinterpretation unless very carefully analyzed. The very *definition* of various crimes vary in different states and in different nations. We might accomplish a more useful purpose by calling attention to the number of criminals who are charged with the lesser of several serious charges in order to be more certain of getting a reasonably prompt hearing; by pointing out the number of criminals who are annually turned loose on society by pardon and parole.

By persistently telling the American citizen and his sons that another 'crime' is committed in our country every time the hands of the clock move a certain distance we *may* be educating him to believe that criminal activities are neither dangerous nor too unethical. Is it possible that Young America would be more inspired to 'go straight' if it were told how many Americans go from cradle to grave serving as honest, respectable, self-sacrificing citizens of their communities?

It is a topic too deep and too broad for us to propose a solution but we believe there will be universal agreement that the problem has *not* been solved by telling the world that America is a veritable hot-bed of iniquity.

In the meantime, since our anti-gun friends are so fond of quoting criminal statistics, we will temporarily go along with them and call their attention to Mr. Bennett's statement that gun-toting America is improving its statistical position with regard to crime while gun-less England suffers with a thirty percent increase.

Well, well!

C B Lister

Cook fires rapidly in a match but with the cool assurance of a veteran. Here he is being coached by old-timer Tom Arnold

ACK AT SCHOOL AFTER HIS LYMPIC TRIUMPH, 'THE COOKIE' AUSES TO PASS ALONG SOME OF THE ESSONS HE LEARNED ON THE AY UP THE LADDER . . .

Beginner's Luck

BY ARTHUR COOK

Although Arthur Cook has not reached his twenty-first irthday, he is one of the finest rifle shots in the United States. His performance in the recent Olympic games, where he took he only gold medal ever won by a US rifleman, is typical the sort of shooting that has characterized The Cookie's areer on the range. By no means exclusively a belly-flopper, ook is as much at home in three- and four-position indoor vents. His offhand performances have been phenomenal. He hoots .22- or .30-caliber with equal ease.

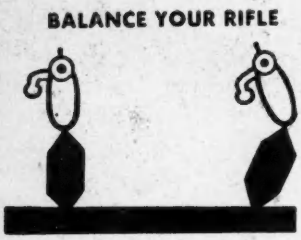
In this and the articles to follow, Arthur Cook has matter-f-factly recorded a lot of the things he learned during his wn fight to master the art of shooting. For the beginner, hat fight carries an unusually impressive moral. Cook's first ward, which came to him as low-scoring member of his Boy cout team in 1941, was a booby prize!—Ed.

PRONE IS THE BEGINNER'S POSITION. After a little prac-ce the new shooter finds himself making fair scores. As ature takes its course he graduates to the sitting, kneeling, nd finally standing positions. As he moves away from the floor the tyro finds each position a little more difficult. Then, finally, his training is finished. He is on his own.

At this point one of two things happens: He takes a liking to position shooting and specializes in it, or he sticks to the prone position. If he chooses prone shooting, he will undoubtedly favor the outdoor courses of fire at 50 and 100 yards. If he prefers position shooting, he will probably stay indoors and shoot gallery courses. In either case the prone position is basically the same and can be mastered to the highest degree of accuracy.

Let's take a look at the prone position. First, are you comfortable? Ask yourself this question when you're in position ready to shoot. If you're not, there's something wrong. You may have a bad position, or the rifle may not fit you. In either case, that 'something wrong' can be corrected.

You should know your position as well as you know your own family. You should be familiar with the location and position of your legs, feet, body, shoulders, and arms whenever you're shooting. The job of perfecting your position



takes plenty of time and patience, so don't be discouraged after the first few tries if you're not making top scores.

The prone position doesn't look hard and it really isn't. Let's put a scope sight on your rifle and see what your position looks like. What? No, the ground isn't moving. That's just one of your position faults.

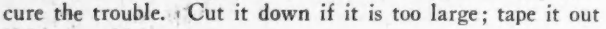
The rifle will always move, but that movement can be cut to a minimum by a little experimenting. For instance, it's probably pulse that is causing you to wave bye-bye at the bull. If you don't control most of that pulsation you'll be saying hello to the nine ring. What causes pulse? It can be caused by several things. The sling may be so tight that it cuts into your arm. Or your left hand may be against the forearm stop so tightly that circulation is stopped. Perhaps you just have a case of buck fever. That can cause pulsation too!

The only way to cut down the effect of pulse is to try different positions of the forearm stop and different sling tensions. Don't forget to check the position of the sling on the left arm. It should be tight, but not so tight that it stops circulation. There are several different types of sling cuffs and arm bands on the market. One of these might be just the answer.

There are other things to think about, too. Where does your head rest on the stock when you're ready to shoot? If your eye is back five inches or so from the end of the closed bolt, chances are the stock is too long for you. Nothing contributes more to an uncomfortable position than a misfit stock. Fortunately, this situation can easily be remedied by cutting off the butt end of the stock. The stock should also fit at the forearm. Some rifles have a narrow forearm while others have a wide forearm. Again, a simple remedy will cure the trouble. Cut it down if it is too large; tape it out if it's too skinny.

Now, relax! Don't try to fight yourself. You can't be comfortable unless you're at ease. When you're holding your breath let your left arm relax so that the fore-end lies in the heel or palm of your hand. If you have trouble relaxing that left arm, try bringing your left elbow directly under th rifle and your left arm perpendicular to the ground. It's a hard job to stop that tension but don't give up. Once you have licked these little difficulties, prone will be your dead-cinch position.

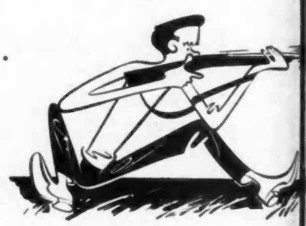
Dick Spry photo.



Don Smith's position must be good! Last year the Centerville (Iowa) marksman scored 464 consecutive tens at fifty feet in a registered indoor meet

Whether you're the outdoor prone shooter or the indoor position shooter, these hints will apply. However, don't take them as absolute gospel. They are the essentials, but even essentials vary a bit from one shooter to another. For instance, there are a lot of riflemen who shoot in an extremely low position. There are as many others who shoot in a equally high position. The difference is sometimes in the individual's build, and other times a matter of personal taste As long as it isn't so low it's illegal, or so high you are un comfortable, go to it!

In order to make top scores you are going to need to equipment—and even then you may run into equipmen trouble. Then it's hard to tell what is at fault—your gu your scope, or your ammunition. If things do go haywir first check the most important part of all, *yourself*, befor you start cussing the equipment. Let someone else shoot you equipment—someone you know can hold. If he experience the same trouble, try your scope or iron sights on anothe rifle that you can be sure of. If you are getting good result with iron sights and bad results with scope then perhaps yo have a bad scope. When equipment trouble does strike, th factory will nearly always make the proper adjustments.



Now let's take a look out on the firing line at Altoona for a minute.

"What'n hell happened to that shot? I'll hold over a bit more. . . . Why, the little stinker went right where I held."

"Hi there, Mac. What's the trouble. Conditions a little rough?"

"Rough! Are you kidding? This outdoor shootin' real beats me. You see that last shot?"

"The eight?"

"Yeah, that's the one. If I'd held it in the middle it's be in the X. The joker went right where I held."

"I'll bet you're overdoping, Mac. I know I lose m points by overdoping than I do by just holding in t middle."

"I know, I've heard that line before. Don't bore me ag with the gruesome details. You have to hold out for sh when the wind changes, don't you? Well, I've heard enou about the center-hold stuff. Why don't you stick to your o knitting and hold center if you want to."

This sort of discussion takes place every day on one firi line or another. I believe that overdoping—paying too mu attention to wind and mirage, instead of too little—is the ca of more bad scores than anything else. There's no set way beat the wind, of course. There is a system, though, th works well for me and I'd like to pass it on for what it's wor

First of all, you *must* have confidence in your equipme and be able to pass off an occasional bad shot as just one those things. When conditions are rough, shoot fast so th you get off as many shots as possible while the conditions a the same. Then if you get a wide shot move back to yo sighting target and see what's going on. Try to keep t conditions in mind so that when you're sighted in you kn what wind condition you're sighted in for.

At first, when you're shooting fast, you won't have time to be careful with your sight picture. That comes with practice. Your sight picture must be good, of course, and it can be developed along with a fast squeeze so that you can get the shot off with your first sight picture. I've found that the first sight picture is the best one and as a result I have confidence when shooting fast. You can easily see that if you shoot while conditions are the same you can make more error in the sight picture and still stay in the ten ring.

If conditions are constantly changing and you go out for a bad one though, don't give up. You'll have plenty of company. If you're shooting with a scope sight you can hold over a little bit and follow your shots. If you see conditions change and you get a close one then you can hold over to the ten ring on the other side and probably get an X on the next shot. Personally, I dislike holding out any farther than to the edge of the ten ring because you have to depend too much on guess work to get your shots in.

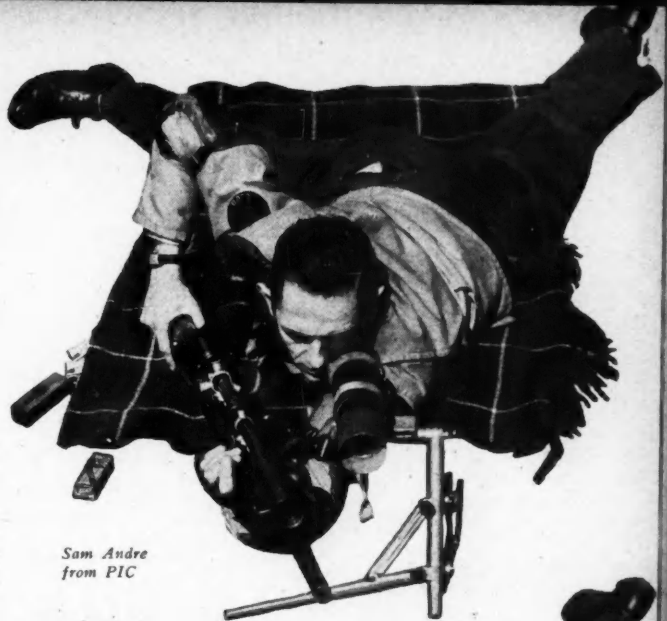
If changes are really bad or opposite to what you're sighted in for, then don't shoot. If conditions look like they're becoming fairly constant again and you believe they'll stay that way for awhile, then go back on your sighter and sight in again.

With iron sights it is a little more difficult to hold for wind. I've found that I get best results by holding in the middle and taking a couple of clicks one way or another on my sight to compensate for slightly varying winds. Remember that the faster you shoot while conditions are good, the more time you have to wait out any bad condition that might arise. Also, if you try to hold a sight picture for any length of time, your eye will blur and your heart will beat faster due to the strain of holding your breath. As a result, your position will become more unsteady every second.

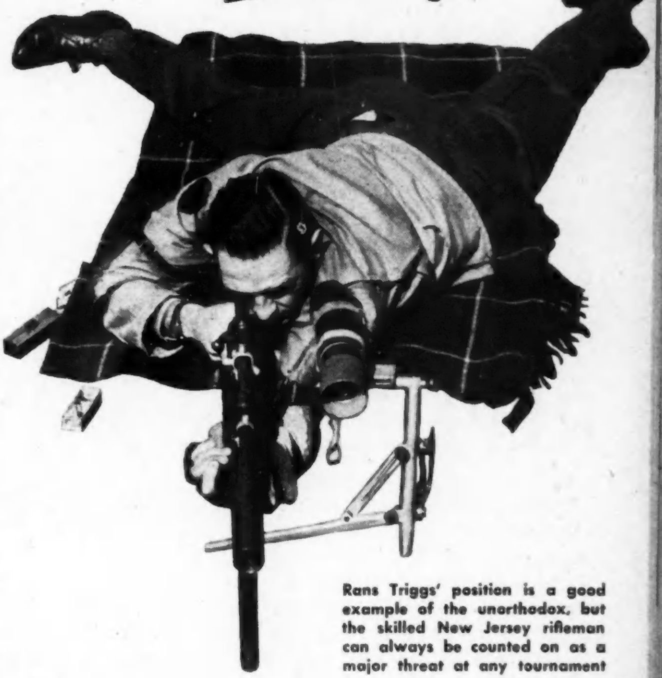
And then there's practice to think about. You will need plenty of practice *of the right kind* before you can become an expert. The exact amount varies with the individual. Too much practice is not good for high scores; on the other hand, too little practice is likely to be harmful. I find I get best results if I stop at a point where I want to shoot a little longer.

If you are the type who shoots very fast you will find that you can get in a lot of shooting in a short time and still not be tired. If you try to hold a shot too long your muscles tire, your nerves tire, your eyes tire, and as a result you can't be too sure of your position or hold. When practicing outdoors it is a good idea to use occasionally some kind of a prone support with sling, such as a sandbag rest. In this way you can find out how your rifle and ammo are performing. For checking equipment, this prone rest position should only be used when the conditions are perfect. A sandbag rest is also useful if you want to find out just how far a certain velocity wind will carry your shot. This can be of great value in learning how to dope wind.

A rifle and some ammunition isn't the only equipment that is necessary in target shooting. There is an extraordinary number of gadgets and accessories on the market that aid the shooter in his attempt to shoot out the bullseye. Probably the most important is the spotting scope. Not only does the scope show you where your shots are going but it will also enable you to pick up mirage on a sunny day. Spotting scopes vary in shape and cost from about twenty dollars to a hundred. If you have the scope, then you need a scope stand. Again there is a wide selection from which to choose. If you are an indoor shooter, you would probably have more use for a tripod stand equipped with an extension for each position. On the other hand, if you specialize in the prone outdoor-type shooting, you would do well to select a bipod-type stand which allows your left arm to remain away from the stand and at the same time puts the scope near your eye.



Sam Andre from PIC



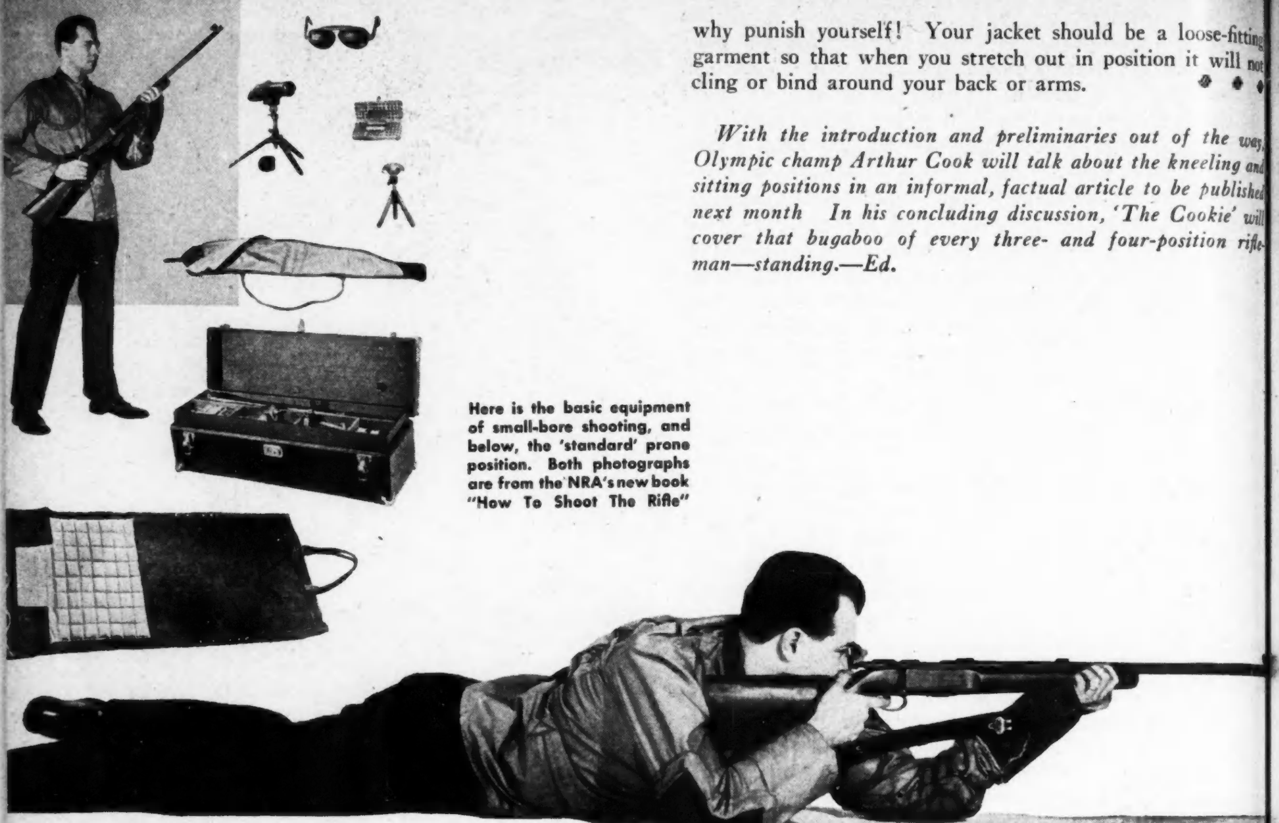
Rans Triggs' position is a good example of the unorthodox, but the skilled New Jersey rifleman can always be counted on as a major threat at any tournament

Ammunition block and shooting mat are small items but often very important. Some fancy blocks even have built-in alarm clocks—which are handy if you are not too good at estimating time limits. The mat you buy should depend upon the type of surface you're shooting on. If the ground is rock, a heavy mat is required. If the firing point is all grass, nothing but a cloth is necessary to protect your clothing from dirt and moisture. Shooting glasses should also be included in your small-bore kit.

A shooting jacket adds to the comfort of your position and, once you're out of the tyro stage, is a necessity. That all-important matter of a comfortable position is all but impossible without one. To shoot without a jacket is as foolish as catching a baseball without a glove. It can be done, but why punish yourself! Your jacket should be a loose-fitting garment so that when you stretch out in position it will not cling or bind around your back or arms.

◆ ◆ ◆

With the introduction and preliminaries out of the way, Olympic champ Arthur Cook will talk about the kneeling and sitting positions in an informal, factual article to be published next month In his concluding discussion, 'The Cookie' will cover that bugaboo of every three- and four-position rifleman—standing.—Ed.



Here is the basic equipment of small-bore shooting, and below, the 'standard' prone position. Both photographs are from the NRA's new book "How To Shoot The Rifle"

☆ ☆ ☆

REPORT FROM THE DCM

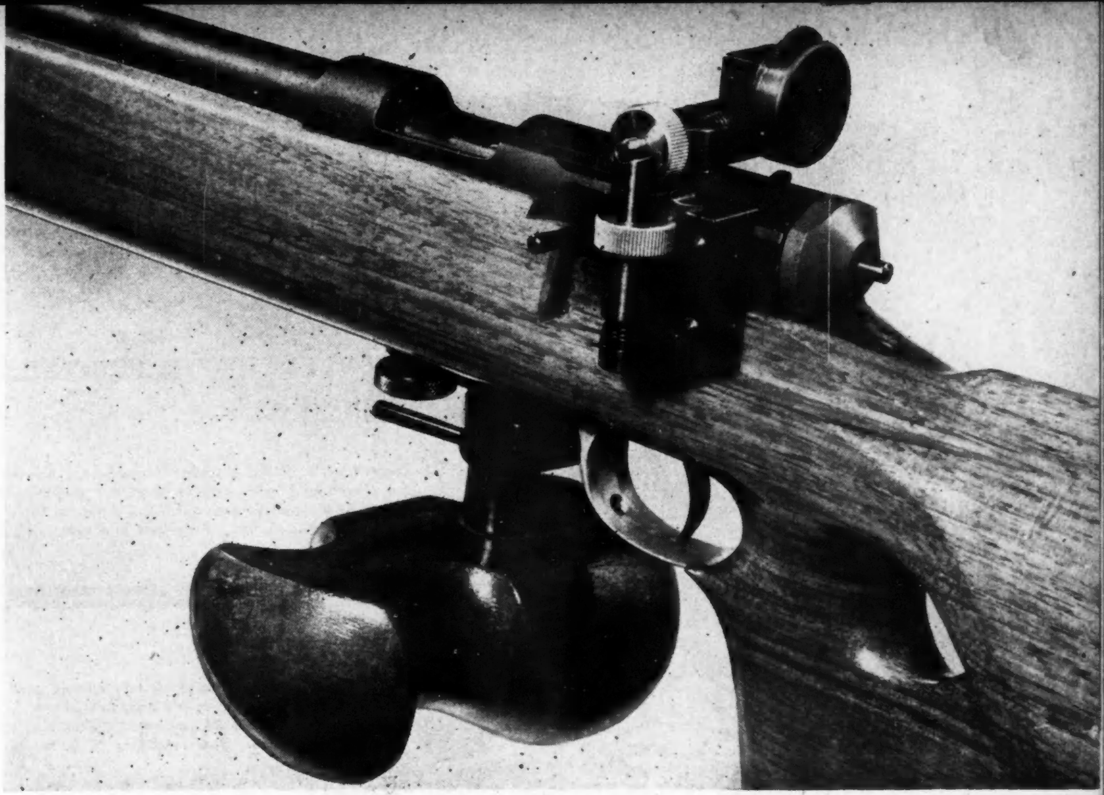
The avalanche of mail received by the DCM during the first week of October broke all previous records of correspondence received. On a single day the Post Office delivered more than 21,000 letters, mostly from NRA members who wanted to purchase a Springfield or Enfield rifle. The requests were in response to the notice in the RIFLEMAN, October, stating that rifle sales were being resumed for a limited time to give the NRA members who had not previously purchased a military rifle an opportunity to do so.

The announcement outlined eligibility requirements (sales limited to adult members of the NRA who have not purchased a rifle of the same type since DCM sales were reopened in 1945) and specified that *"only orders postmarked during October, 1948 will be processed"*. Rifles listed included the Model 1903 Springfield classed as unserviceable, price $15.00; the Model 1917 Enfield, unserviceable, price $5.00; and a very limited number of serviceable Enfields, priced at $7.50.

A packing and handling charge of $1.85 per rifle was mentioned for the Enfields, but the notice failed to indicate the required dollar additional charge for inspecting and segregating the rifles. Therefore, the total packing and handling charge for each rifle, Springfield or Enfield, will be $2.85, which amount will be added to the purchase price. As in the past, the procedure for ordering required only the sending of your NRA membership card with purchase request. The shipping depots notify purchasers when and where to remit; therefore, members ordering ordnance material should *never send money to the DCM.*

Because rifle sales were resumed for the month of October only, a word of explanation here seems timely for the information of recently-enrolled members. It has become an established DCM policy to accept members' purchase requests for military rifles for a limited, specified period and then process such orders before accepting more. This procedure is necessary because of the terrific volume of mail which cannot be handled promptly.

Although rifle sales were re-opened for the month of October only, processing the great volume of orders already received will require some months. Each order must first be checked against previous purchases. Members are requested to avoid unnecessary correspondence and to keep abreast of developments by reading the DCM reports to be published monthly in the RIFLEMAN. This is particularly recommended at this time because it is impossible to ascertain now whether or not the number of orders received during October will exceed the number of rifles currently available for sale. In any event, the backlog of purchase requests will be processed in the proper order and, if additional rifles can be made available, they will be offered for sale to NRA members. ◆ ◆ ◆



A close-up of Haemmerli & Company's model 45 small-bore rifle. Palm rest shown on rifle is removed when firing in prone position

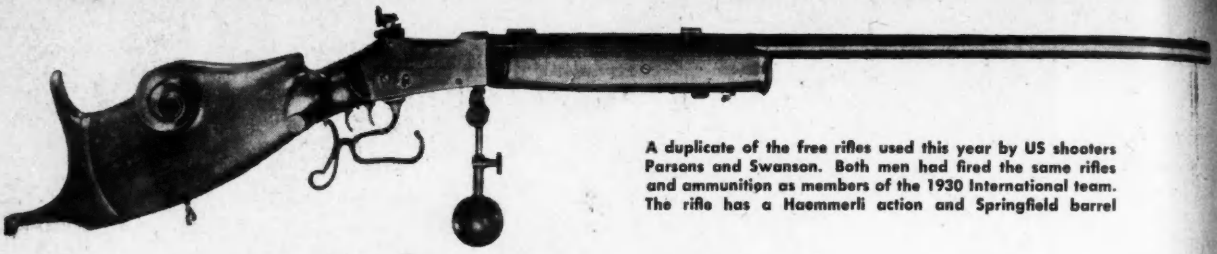
OLYMPIC EQUIPMENT

OUR RECORD IN THE '48 OLYMPICS PROVES ONE THING. EXCEPT IN THE FIELD OF SMALL-BORE RIFLES, EUROPE'S MARKSMEN HAVE US OUTGUNNED

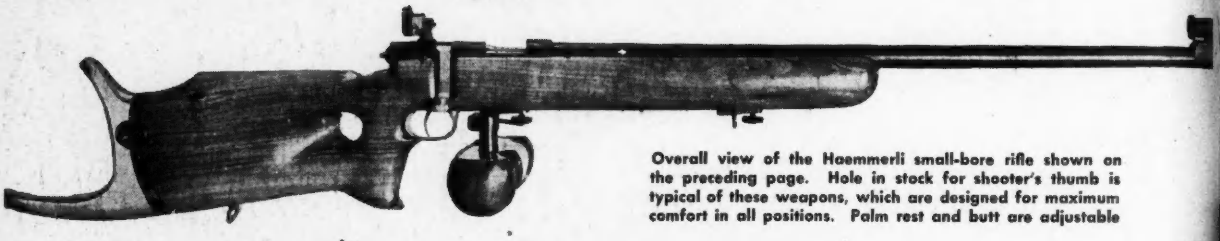
True to the traditional European ideal of fine workmanship, Haemmerli rifles are painstakingly assembled by hand. Factory is at Lenzburg, Switzerland

American shooters probably wondered why their representatives at the 1948 Olympic Games landed well down the list in all but one shooting event. They knew without asking that the answer was not lack of ability. This country's rifle- and pistolmen can hold their own in any company. As reported by US team member Frank Parsons, Jr. (RIFLEMAN, October, page 11) the answer is equipment. Europeans have maintained interest in the specialized courses of Olympic and international events, and have developed special weapons. We have not.

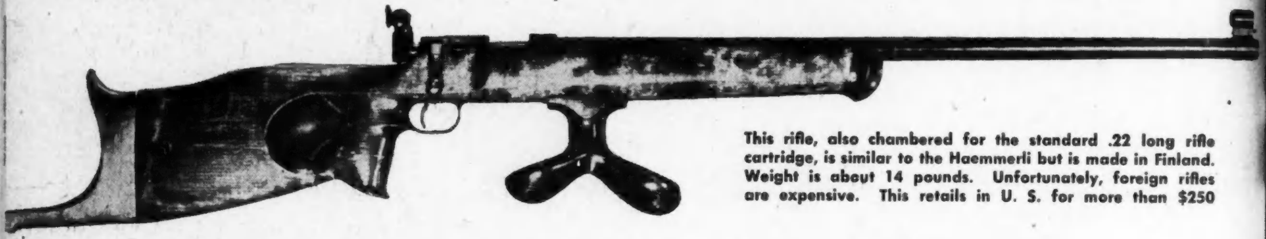
On this and the following pages are shown some of the rifles and pistols developed in Europe for European-style competition. At first glance they seem strange and illogical. Actually, there is nothing very strange about them, and certainly nothing illogical. Many of their features—set triggers, fancy butt plates, palm rests—went out of vogue in this country 50 years ago. A few of their ideas, typified by the heavy pistols used in Olympic rapid-fire, which are equipped with compensators, though chambered for the little .22 short cartridge, are new and original. But in no case would they offer any serious challenge to American manufacturers. The one thing we lack is the interest to create a market for arms of this type. Perhaps, between now and the next Olympics, that interest can be spurred by the programming of Olympic-type matches at registered rifle and pistol tournaments. If so, and we do get our equipment, US shooters will have a chance in 1952; if not, 1952 may well be a repetition of 1948.



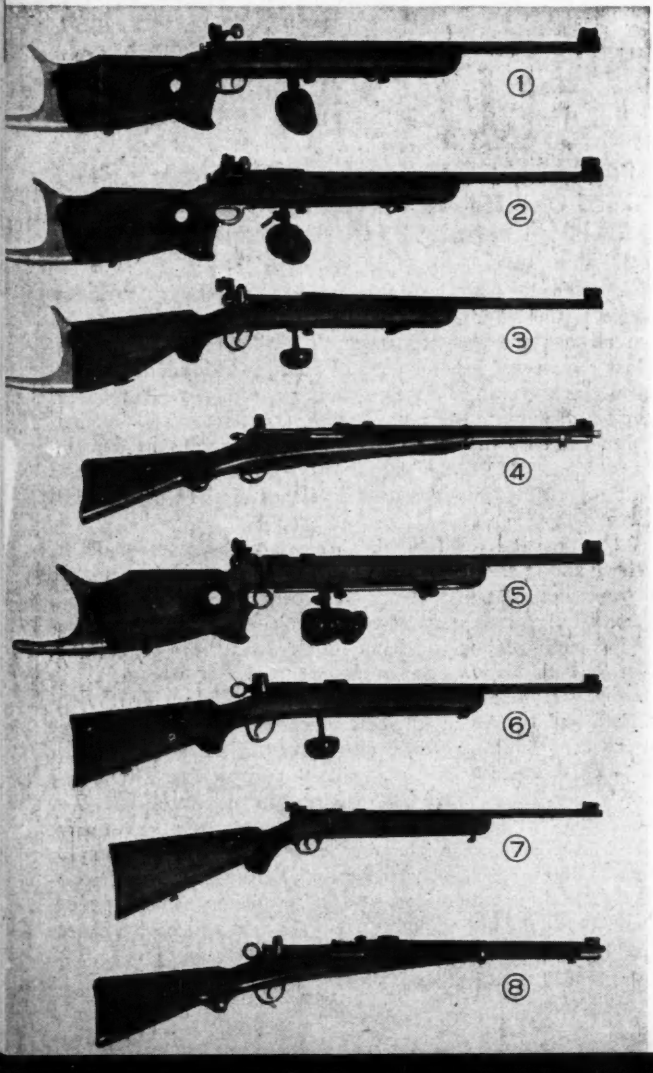
A duplicate of the free rifles used this year by US shooters Parsons and Swanson. Both men had fired the same rifles and ammunition as members of the 1930 International team. The rifle has a Haemmerli action and Springfield barrel

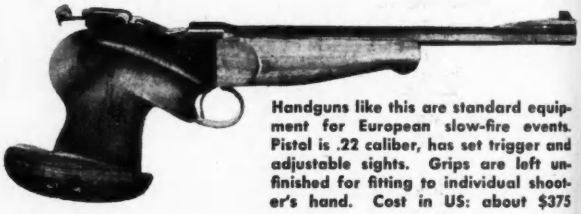


Overall view of the Haemmerli small-bore rifle shown on the preceding page. Hole in stock for shooter's thumb is typical of these weapons, which are designed for maximum comfort in all positions. Palm rest and butt are adjustable

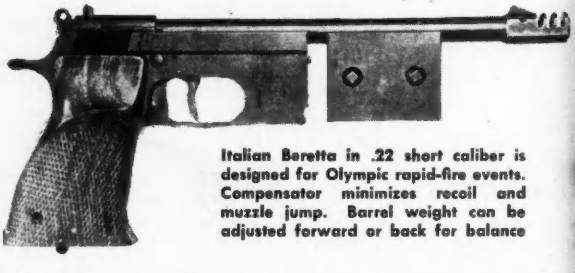


This rifle, also chambered for the standard .22 long rifle cartridge, is similar to the Haemmerli but is made in Finland. Weight is about 14 pounds. Unfortunately, foreign rifles are expensive. This retails in U. S. for more than $250



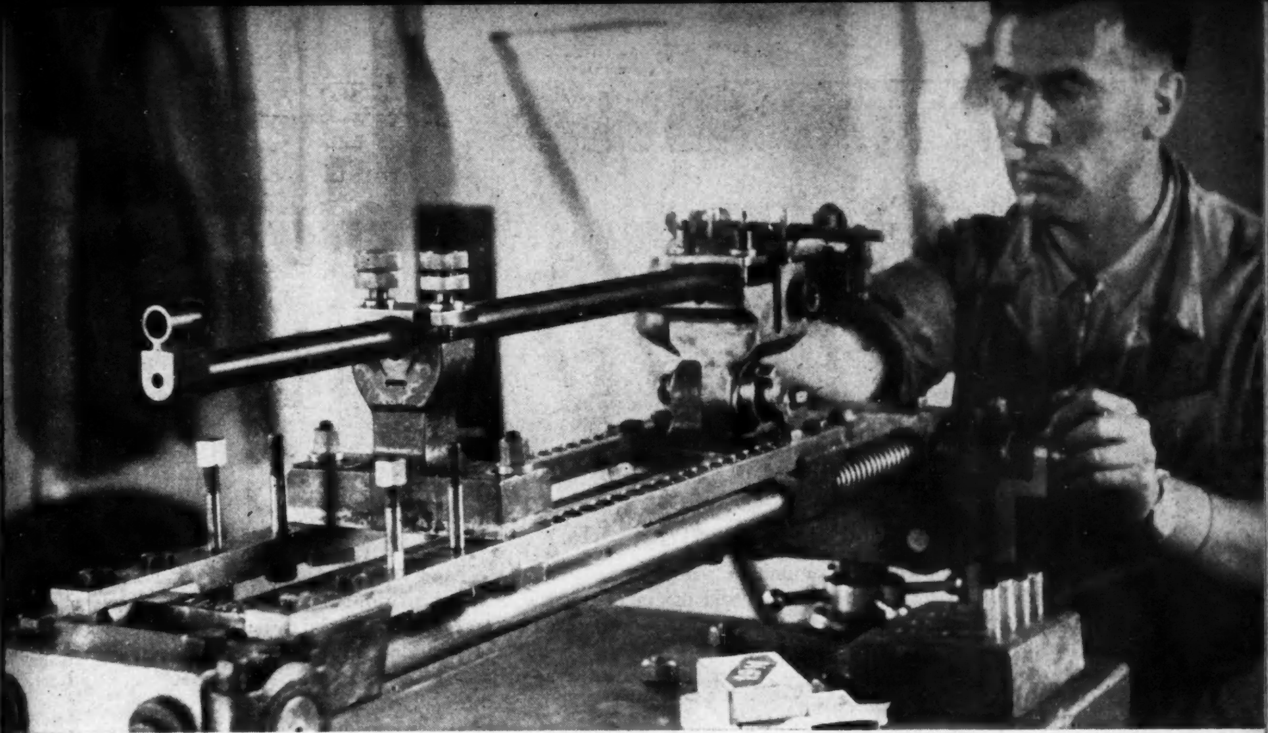


Handguns like this are standard equipment for European slow-fire events. Pistol is .22 caliber, has set trigger and adjustable sights. Grips are left unfinished for fitting to individual shooter's hand. Cost in US: about $375

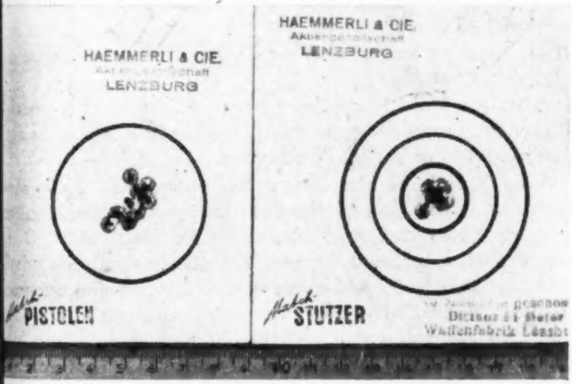


Italian Beretta in .22 short caliber is designed for Olympic rapid-fire events. Compensator minimizes recoil and muzzle jump. Barrel weight can be adjusted forward or back for balance

⬅ All of the rifles shown on the left are made at the Lenzburg plant of Rudolph Haemmerli & Cie. for specialized forms of shooting popular in Europe. From top to bottom, these rifles are: 1) long-range free rifle with set trigger for 300-meter shooting; 2) a similar model, without set trigger. Note that identical stocks are supplied on large- and small-bore target rifles, 3) lightweight big-bore rifle for beginners; 4) regulation Swiss army rifle (Schmidt-Rubin) with selected target barrel; 5) "World-master" small-bore rifle shown in large photograph above; 6) "Cadet" free-rifle with military action; 7) Haemmerli sporting rifle; and 8) small-bore miniature of the Swiss service rifle. The big-bore rifles are supplied in a wide variety of calibers. Except for military rifles, sights are accurately made and adjustable, and trigger pulls may be varied by turning a small screw located inside the trigger guard. ◆ ◆ ◆



Haemmerli target arms, like those of American manufacturers, must pass rigid accuracy requirements. Here a technician in the Lenzburg factory readies a big-bore barrel for trial. In the photograph below (left) two of Haemmerli's test targets are shown. On the left is a ten-shot group made with one of their free pistols, and beside it a five-shot small-bore rifle group. Ruler is in millimeters. Below, a Haemmerli factory employee compares rough barrel blank with finished product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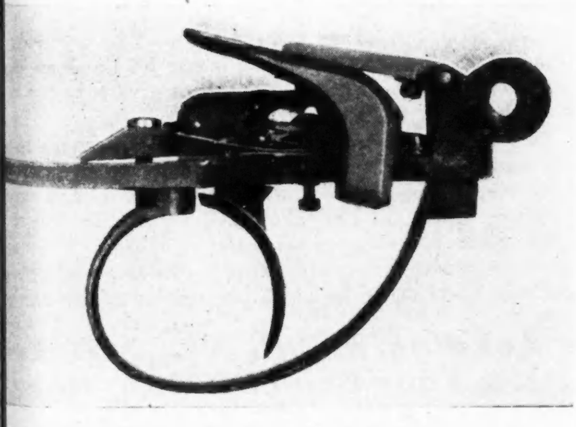
Dictanz 50 Meter
Waffenfabrik Lenzburg

low: Close-up of set trigger used in Haemmerli free pistol. Pull is ad- stable by turning small screw behind trigger. Curved lever sets trigger



Essential Handloading Detail

By Hosea Sarbe

When I started handloading ammunition many years ago, a sage old shooter and handloader told me in no uncertain terms: "You only blow your damned head off once, so always be sure you are right before loading a hull. Always stay a grain or two below maximum powder charges, and if you don't know what you are doing, find out before going ahead!"

I have always followed those harsh words of wisdom, and have never had a gun accident. My head is still in its original position. I would pass on that simple advice to all others who are starting the fascinating game of 'rolling your own.'*

Anyone can reload with perfect safety and produce the finest of ammunition by giving attention to a few simple details.

There are many uses for special loads in the hunting field as well as in target and varmint shooting. Light loads are needed for small game (for the pot) that full-power loads in the big-game rifle would blow to pieces. Also, some custom bullets are more suited for use in hunting certain species of big game than bullets in factory loads, while other bullets are more satisfactory for varmint and pest shooting.

Back 'in the good old days' before the war, when a variety of factory ammunition, suitable for all sorts of big-game shooting, could be had, there wasn't much excuse to handload strictly for big-game hunting. Since the unpleasant struggle, however, conditions have not been so balmy. If the hunter can buy ammunition at all, he is lucky and he gleefully takes whatever he can get. During these times the handloader with some good components salted away is in his glory.

If you want to get accuracy from your home-grown ammunition, remember that accuracy and uniformity are largely one and the same thing. There are many simple little tricks to be followed in handloading to obtain uniformity.

To get the finest accuracy, it is not necessary to use the most elaborate and expensive tools. Nor is it necessary to have a complete shop or loading room. You can do the loading right on the kitchen table, but you should have a quiet little nook for this sort of tinkering.

For the loading and all operations except full-length resizing or forming of the hulls I use the Belding & Mull Model 28 tools. They will load ammunition of best quality when properly adjusted, and they can be used any place. A powder measure is handy and speeds up production when lots of ammunition is turned out, but I do not use one. I prefer to weig each charge. It is necessary to have suitable scales anyway.

For the weighing of the charges the prescription balan type of scale is ideal, and it should be accurate and sensiti to one-tenth of a grain.

Together with reloading tools, full-length resizing dies a needed for most calibers if much reloading is done. In wildc calibers they are a must for case-forming as well as for r sizing. I have never found better dies than those made L. E. Wilson, which are the two-piece type for use in a vis In use, the case is dropped into the die and the drift insert and forced down to the shoulder. The drift is then remov and the case forced out with the punch rod. Thus no stra is placed on the case rims and correct headspace is assure Also, it is not necessary that the die be adjusted each time it placed in a machine.

After you have selected your tools (and have safely sneak them home some dark night while the little wife was at bridg you are ready to get into production.

First your hulls must be properly prepared. New· she often have burrs around the flash holes on the inside of t case, caused by the punch that made the flash holes. Th burrs must be removed, because they will partially or who close the flash holes and cause erratic ignition and accura Burrs particularly cause trouble when the cases have b run into the full-length resizing die and pushed out by punch rod inserted through the case mouth. This rod w mash or fold the burrs over the flash hole, sometimes co pletely closing it. Each time cases are run in and out of die thusly, the flash holes should be inspected. If the fl holes are not clear and uniform they should be reamed enou to clear them, but do not enlarge them. You can mak reamer for this trick by simply grinding off the head o small screwdriver and grinding the shank square, to the c rect size, with a slight taper.

In loading any lot of ammunition all shells should be the same brand or make. Shells of different manufact often vary in brass thickness, which in turn causes a variat in powder capacity. They also often vary in flash hole s which affects pressures and the center of impact. Therefo for the most efficient performance and accuracy, cartridges the same brand should be used in any one lot of ammuniti

"Be Sure You Are Right Before Loading a Hull . . . If Yo Don't Know, Find Out. You Can Blow Your Head Off Only Once

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* *Some of the loads given in this article seem on the 'hot' side, although it is not doubted that Sarber has found them satisfactory in his guns in Alaskan climate. Higher temperature climates may boost pressures so high as to be unsafe, so the advice given in the first paragraph should be given sincere thought before arbitrarily using these loads under all conditions.—Al Barr.*

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In full-length resizing in a vise the shell should be pressed out of the die with the punch rod instead of driving it out. The webs are sometimes damaged or set back until the primers will not seat properly if driven out. A whisper of Fiendoil wiped on about every third hull will lubricate the cases nicely and facilitate wiping clean the finished and loaded hull later.

Whether you have full-length resized or not, the shell necks must be resized and inside expanded in the neck resizing die. In neck resizing, the necks should be dipped in dry powdered graphite, which will lubricate them perfectly inside and out without wetting them with oil.

Empty cases must always be free of trash and obstructions, and the primer pockets should be cleaned immediately after the decapping operation. The Wesnitzer or a similar gadget is handy for this job, or you can make a decapping tool to suit yourself. But get the primer pockets free of the carbon left from the fired primers, so the new primers will seat freely and to the bottom with no deformation.

Cases should be trimmed to the correct length, particularly in the hot-shot .22's. And the case necks should be reamed inside to uniform thickness and size. The inside neck reaming is done just as the fired shells come from the chamber in full-charge loads. For these jobs I use the Wilson trimmer, which does a perfect job. It does both jobs simply by using either the cutter or the reamer heads. After this you must chamfer the sharp inside edge of the case mouth enough to make sure the bullets enter in seating with no scraping or shaving at the base, or accuracy will go sour in a hurry. Also, chamfer slightly the outside edge. The Wilson burring tool is just the ticket for these jobs, doing both by simply swapping ends.

After you have done all these pleasant chores and have the completed hulls primed you weigh, or measure in a powder measure, the correct charges of powder and fill 'em up. Then seat the pills to the correct depth. In determining the correct seating depth for a given rifle, I have always gotten best results by seating a bullet too far out, then chambering the cartridge in the rifle (with the safety properly set), and closing the bolt. The bullet is seated by the barrel throat itself. Then set the seating die so that it will seat the bullet just a trifle deeper, or enough that the bullets barely clear the rifling in chambering. After the bullet is seated, wipe the completed capsule clean with a cloth slightly dampened with Fiendoil. This will remove the graphite stain and make the hull slick as new.

Now we are ready to 'tetch 'em off.' We will do so with complete confidence, because we did everything right, and we remembered what the old timer said in the beginning—"You only blow your damned head off once!"

While we haven't yet been able to get Barnes .375 Magnum bullets in 300-grain weight, I understand such a bullet in extra or double-strength jacket is to make an appearance. I would expected this bullet to be the answer for heavy game, and with a load of 63 grains of Du Pont No. 4064 powder and the Winchester No. 120 primer it should make a very good cartridge.

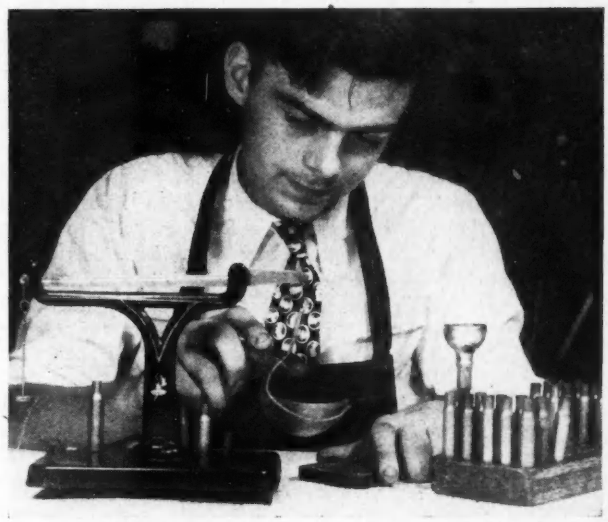
A .30-'06 handload I have found to be effective on heavy and tough game like brownies and moose is the 200-grain Western Tool & Copper Works bullet ahead of 57 grains of Du Pont No. 4350 powder and the No. 20 primer. But, like a lot of other good things these hectic days, the W.T.&C.W. bullets are no longer available. I haven't tried the 200-grain bullet in the .300 Magnum on big game; I am sure would prove one of the best in this caliber.

A very good load for near all-around use on big game in the .30-'06 is the W.T.&C.W. 172-grain bullet with 49 grains of 4320 powder and the 120 primer.

One of the best .30-'06 loads for heavy game at medium ranges is the Western 220-grain bullet, with the small lead soft-point tip, ahead of 56 grains of No. 4350 powder and the No. 120 primer. When factory ammunition was available with this bullet it was very good.

Another fine bullet for heavy game is the original Peters Belted bullet in 180-grain weight. In the .30-'06 a charge of 48 grains of No. 4064 powder and the Winchester 120 primer is a fine load, but, again, this bullet has about become extinct. I would like to see bullets such as these again available to handloaders, as well as in factory ammunition.

In light loads for small-game and mid-range target shooting in the '06, I have used the 150-grain military bullet and 18 grains of No. 80 powder with good results. More recently I have gotten good results with this bullet and 19 grains of No. 4759 powder. The 172-grain military bullet and 18 grains of this powder makes a good light load. The 120 primers were used in these.



Accuracy and uniformity are the same, says Sarber. To obtain uniformity of charge, he measures powder for each hull in a prescription type balance, as this handloader is doing, instead of using a powder measure

In the .270 Winchester, the best load I have found for heavy big game is the 160-grain Barnes soft-point bullet ahead of 53 grains of No. 4350 powder, using either Winchester 120 or Remington 9½ primers. These bullets break up too much on impact to be ideal, however, and the jacket and the core part company too readily, but they are the best for big game of any .270 load I have found.

For general use in the .270 on all sorts of medium-sized big game and on varmints as well, I have found the 130-grain Core-Lokt bullet ahead of 50 grains of No. 4064 powder to be a fine all-around load. For varmint shooting in this caliber the 120-grain Barnes bullet and 52 grains of No. 4064 powder have given splendid accuracy and performance. I used the 120

HOSEA SARBER, Alaskan Wildlife Agent (see "Self-Loaded Gunnerman," RIFLEMAN, *February 1948), says, "I started home-loading to obtain the special loads I wanted, for the economy it provided, and because I wanted better ammunition. Moreover, to me it is half the fun in shooting. Since my first attempt some twenty-five years ago, I have loaded most all my ammunition; yet in making comparison tests I have shot far more factory ammunition than the average hunter ever shoots.*

primers in these loads. I have never been able to get good accuracy in the .270 with 100-grain bullets.

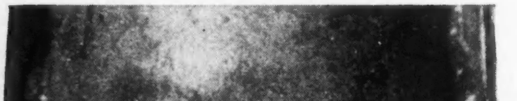
In the .257 Roberts I have used but two bullet weights, the 100-grain in factory loads and the 125-grain Barnes bullet in handloads. For medium-size big game I found the 125-grain Barnes bullet loaded with 45 grains of No. 4350 powder and the No. 120 primer to be a good killer.

In varmint shooting and for the finest of accuracy I have always gotten best all-around performance from the hot-shot .22 caliber rifle of target and heavy-barrel types. In this sort of shooting with these rifles, handloading pays off in accuracy. The .220 Swift is a good example.

My Swift rifles were of the Winchester Model 70 target type, really fine rifles when properly tuned up. But with factory ammunition accuracy was a disappointment. I tried all types and weights of bullets but none of them gave good accuracy. I immediately started handloading, using the 8-S and the Sisk Express bullets in 55-grain weight with 38 grains of No. 4320 powder and No. 120 primers. Groups shrunk immediately to half the size made by factory ammunition.

Another splendid load in the Swift is the 50-grain 8-S bullet and 40 grains of No. 4064 powder and the No. 120 primer. A fine light load is the Sisk Niedner 55-grain bullet and 23 grains of No. 4759 powder and the No. 120 primer.

In the .22 Gebby Varminter my standard full-power load is the 55-grain 8-S bullet and 35 grains of No. 3031 powder, with either Winchester No. 115 or Remington 8½ primers. Also a very good load and the best wind-bucker is the 60-grain 8-S bullet and 39 grains of No. 4350 powder and the same primers. Both these loads give splendid accuracy and all-around performance. These loads are for the Gebby Varminter, but they may be used in some form of the .22-.250 if you cut the powder charges several grains for safe pressures. Many of these rifles have different throat sizes and will not take either load safely.



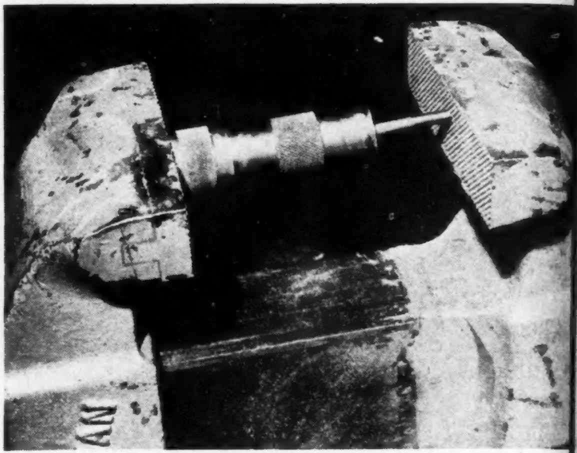
Burrs found around flash holes of new cases should be reamed out with a reamer made by grinding shank of screwdriver square

A light load in the Varminter is the Sisk Niedner 55-grain bullet and 22 grains of No. 4759 powder with Winchester 115 or Remington 8½ primers. It gives excellent accuracy in my rifles, shooting about two inches below the zero of the full-power loads at 100 yards.

In the .220 Arrow hull (the Swift shell with the shoulder sharpened) using Swift loads, I have gotten the finest of accuracy and all-around performance. Swift factory or standard ammunition will not chamber in the Arrow, and the shells are not fire-formed but must be formed in a die, the way any self-respecting shell should be formed. Instead of guessing around with questionable loads in the Arrow, start using the ammunition intended for the gaspipe right from the beginning.

One of my pet loads in the Arrow is the 55-grain 8-S bullets and 38 grains of No. 4064 powder with the Winchester No. 120 primers. The Sisk Express bullets in 55-grain weight are with the same powder charge and primers, also very good.

A load recently tried in the Arrow that gives the finest of accuracy and performance uses the new No. 4895 powder. My powder is from lot No. 2191. Thirty-seven grains of i



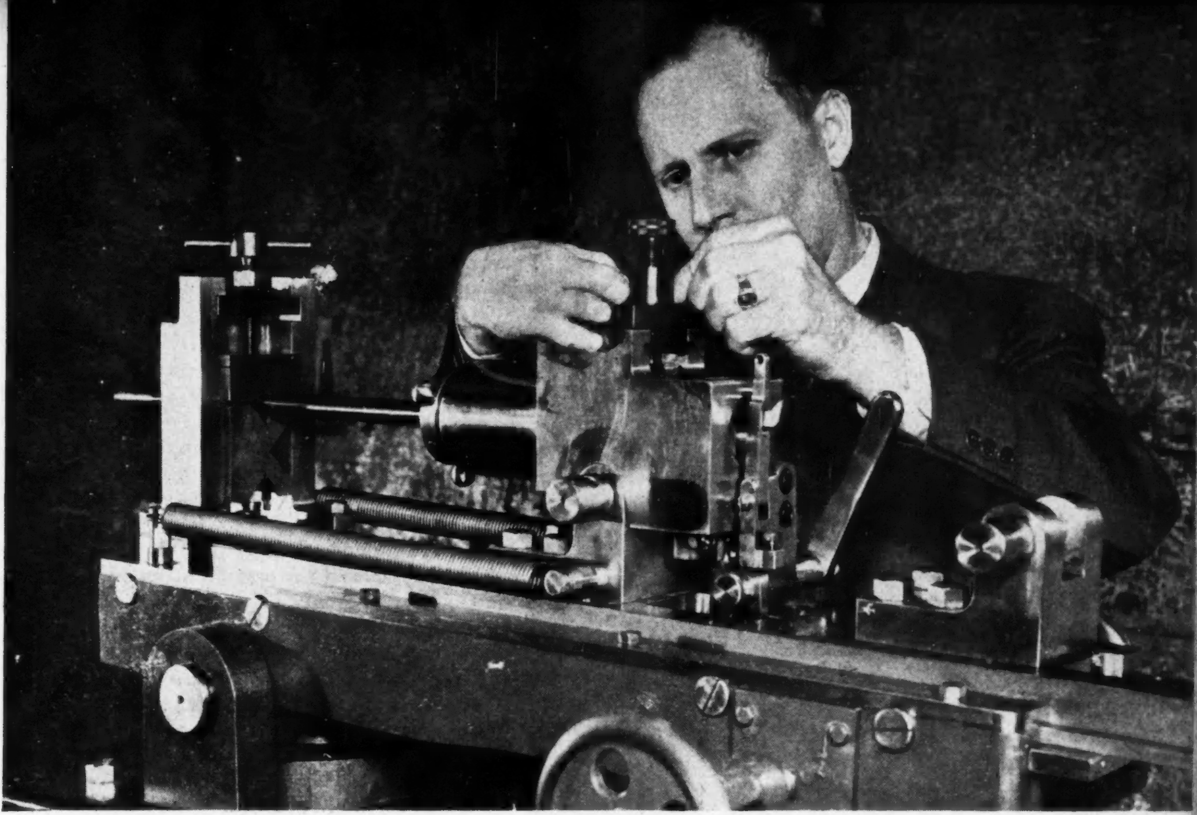
After full-length resizing cases should be pressed out of the die with punch rod rather than hammered out, which sometimes damages the

is used behind the 55-grain pills with the Winchester 1 primers. This load is a streak of lightning and accuracy superb, particularly with 8-S bullets.

Another interesting and fine load is the Sisk Niedner 5 grain bullet and 22.5 grains of 4759 powder and the No. 1 primers. A shooter friend uses this same powder char behind the 50-grain Sisk Lovell bullet with the finest resul

Since the war it has often been impossible to obtain facto ammunition suitable for heavy game such as brown bears a moose. In some calibers the only bullets available in facto loads have been the Silvertips, and I have never been able get, nor have I seen, even fair performance from these bull on heavy game in any caliber. Even in the .375 Magnu with the 300-grain weight, they have given very poor resul blowing to pieces on impact. I have seen them fail to through the first shoulder of medium-size brown bears broadside shots. One failed to go through a hind quarter a small brownie simply because it blew to pieces on impa Still another that a guide shot into a moose's hind leg, j below the heavy ham, last fall, failed to penetrate the where it was not over eight inches thick. The bullet rema were recovered completely flattened and disintegrated. other calibers, such as the .30-'06, .300 Magnum, and the .2 Winchester, their performance has been still more disappoi ing. Since the Core-Lokt and Inner Belted bullets have come available recently in some calibers, results have much better.

Most bullets for use on heavy game leave much to be sired, and accuracy with some factory loads has been anythi but gratifying. Many of these faults can be remedied handloads with good bullets. ◆ ◆



Burt Munhall sets up for a cartridge test in basement range of the H. P. White Company. Result will give both velocity and pressure data

DURING World War II there was a period when the Government was badly in need of armor plate. A Cleveland steel company was awarded a contract to turn it out as rapidly as possible. The company could make the plate without difficulty, but it had to meet certain requirements. To check on those requirements, samples of armor plate had to be shipped to another city for .30 caliber penetration tests. The company was faced with a dilemma: Hold up production between tests, or let production flow and take a chance that it would be rejected? Production control tests at the plant would have solved the problem, but the company had had no experience with gun installations or chronographs for measuring velocity.

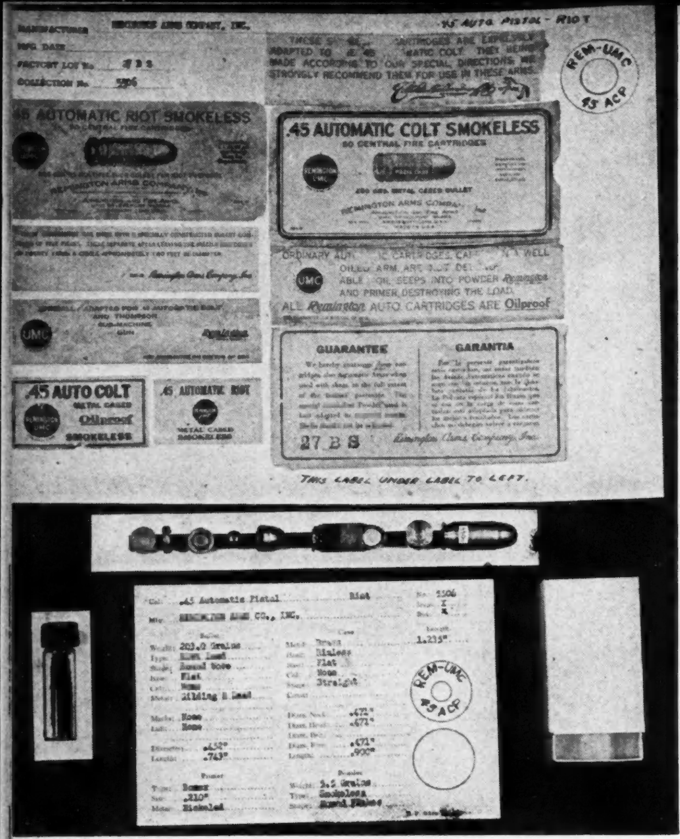
They had heard of an organization which might help. It was the H. P. White Company, ordnance engineers at Euclid Avenue and 90th Street in Cleveland, so they went to them for consultation. H. P. White, chief engineer, and B. D. Munhall, company manager, promptly looked the situation over. Up to this time the steel company had been using ammunition furnished by the government which was loaded to predetermined velocities, but it was suspected that the bullets were not performing as intended due to differences in firing conditions and storage. The only answer seemed to be the installation of a suitable chronograph to determine the velocity of each shot before it struck the plate under test. Unfortunately, commercial chronographs were not to be had at that time. This was a blow, but it didn't stop the White Company—it just slowed them up a little. They managed to find a ballistic galvanometer and built a chronograph on the tricky condenser-discharge principle. Production rolled out of

Hank White and a few of his rifles

IT WAS NOTHING BUT A VAGUE DREAM UNTIL HANK WHITE SAW THE OLD SANDSTONE STABLE IN CLEVELAND

A BUSINESS OF INFORMATION

By EDWARDS BROWN, JR.


.45 AUTO PISTOL - RIOT
COLLECTION No. 5506
.45 AUTOMATIC RIOT SMOKELESS
.45 AUTOMATIC COLT SMOKELESS
50 CENTRAL FIRE CARTRIDGES
REMINGTON ARMS COMPANY, Inc.
ALL Remington AUTO CARTRIDGES ARE Oilproof
GUARANTEE
GARANTIA
27 B S
.45 AUTO COLT
Oilproof
SMOKELESS
.45 AUTOMATIC RIOT
REM-UMC
45 ACP
THIS LABEL UNDER LABEL TO LEFT.
.45 Automatic Pistol
Riot
REMINGTON ARMS CO., INC.

In their search after facts, White and Munhall have broken down thousands of different cartridges. File like this is made up for each cartridge dissected

the steel plant without delays and without rejections. The testing procedure was expedited even more when White and Munhall trained selected steel-company personnel in the handloading of ammunition *at the firing point,* so that they were able to load to any desired velocity at a moment's notice. The whole affair was typical of a unique firm, and their way of doing business.

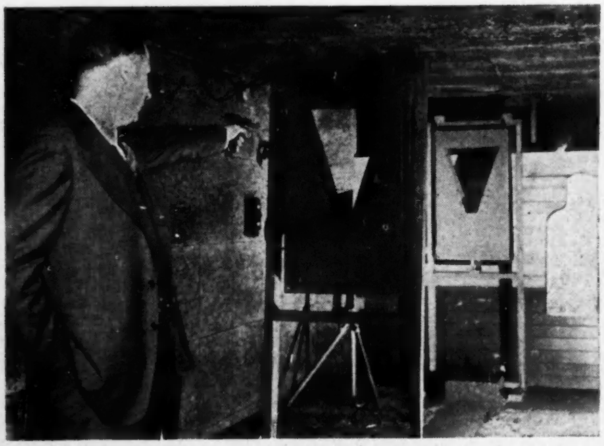
White and Munhall are constantly facing strange problems—usually involving guns or gunpowder. A hazardous submachine gun lacking any heat-treated parts . . . an automatic rifle that ejected the fired shells full in the face of the shooter . . . a man convicted of murder for his wife's suicide . . . an explosion of a railroad car from unknown causes . . . the tracing of a lot of cartridges through the hands of four warring nations . . . the vulnerability of aviators' oxygen tanks to rifle fire . . . the protective qualities of armored vests. All of these and many more have been investigated, re-engineered, or rejected by the unique H. P. White laboratory in Cleveland. Result: the saving of untold amounts in both time and money for the government and private investors by a research outfit whose stock in trade is facts about firearms and firearm ammunition.

How does a company of independent ordnance engineers come about? What keeps them in business during peacetime years? Burt Munhall always told us, "You'll just have to come out and see for yourself." We knew that they must have one of the largest cartridge collections in the world, and a fabulous accumulation of data on guns and ammunition, but it was impossible to picture such a business. After all, there is nothing comparable to it and it is so little known among the shooters of America.

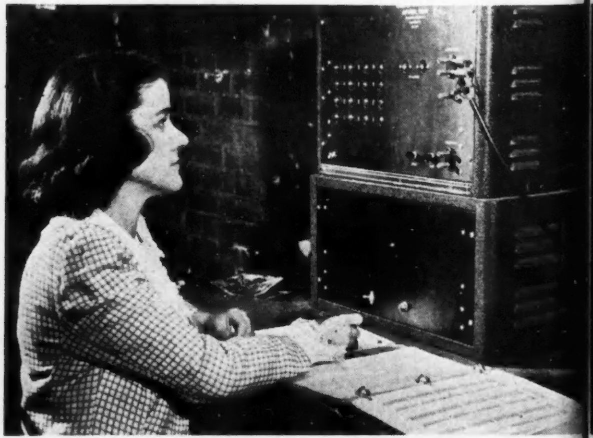
The background of the H. P. White Company, the people who operate it, and the present establishment make up a fascinating story. Henry Packard White, known to his friends as Hank, entered the Engineering School of Cornell University secure in the thought that he would join his family in engineering White Motors. When he graduated in 1931 the depression was squeezing almost everything—including the White enterprises. Propriety impelled Hank White to seek his fortune elsewhere. For a time he sold Ford cars. Then he entered the banking business. But banking was dull work for a man engineeringly inclined, and with a predilection for delving into guns and ammunition. Banking was not for him. He had to find other activities.

In 1935 White fell heir to an old sandstone mansion in Cleveland. Back of the house was a three-story building, also of standstone, which once had served as stable and servants' quarters. As White looked at this smaller building, an idea which he had probably harbored in the back of his mind for a long time began to jell. Maybe banking was not the only answer.

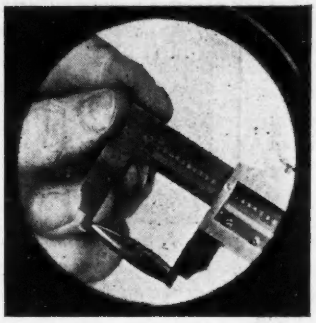
Hank White wanted to accumulate the most complete information and independent engineering service relating to guns and ammunition in the world. As he looked at the old stable, he was not sure just how he would make a going business of it, but White was a business man and he saw possibilities. White got himself a hammer and saw, rolled up his sleeves, and started to work. He is that kind of person. To begin with, he put floors in the old stable, and lined the wall



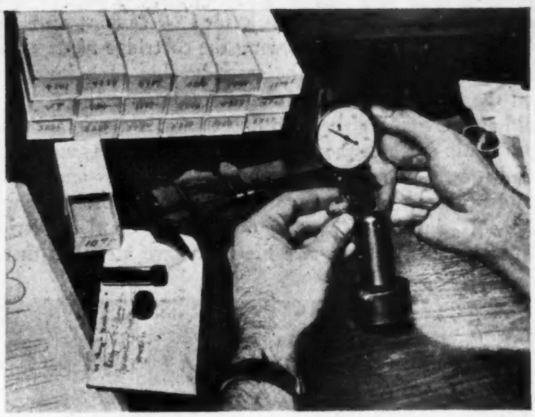
In the White Company basement, Burt Munhall checks velocity of a pistol cartridge. Bullet makes and breaks circuit as it passes through two screens



Operator can read velocities directly on counter unit of Potter chronograp From this reading, simple calculation gives average velocity between scree



Left: Munhall checks fired bullets with comparison microscope. Above and left: Cartridge samples are broken down, and every component is measured for records



Photographs for The American Rifleman by Richard L. Reish

with knotty pine. It was a big job, but Hank White's idea was beginning to take form and it would need a home.

One day White met a kindred spirit. Burt Munhall was a cartridge collector who had started when he was 10 years old. Munhall, who was out of a job at the time, took a keen interest in what White was doing. Before long he was helping with the building when he wasn't following up leads on a permanent job. For weeks White and Munhall worked side by side making over the interior of the building. As they worked, Hank White's dream came into clearer focus. He knew what he wanted to do—and it definitely was not banking. Gradually his plans took shape.

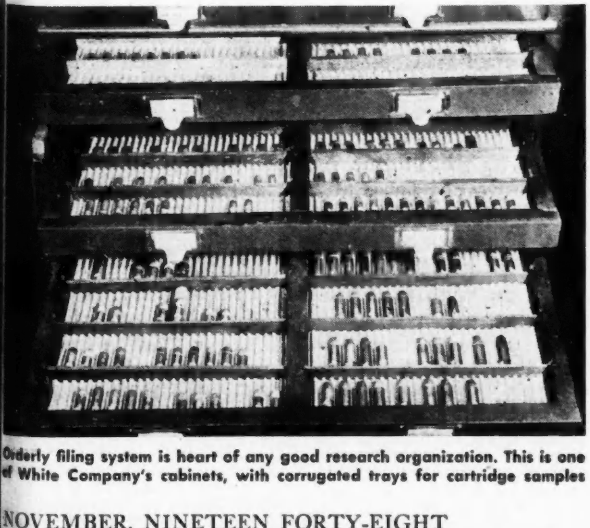
The building was about ready for business when Munhall lined up a job. He told White of his good fortune and was about to shake hands and depart. White hesitated, told Munhall that he didn't want to break up his 'organization' at this stage in the game, and made him a proposition. Munhall accepted and they set about in dead earnest to become recognized authorities in the small arms field.

The two men collected cartridges and guns from all parts of the world. They dug up rare old catalogs. They sought out every piece of reference material they could lay hands on. They brought in filing cabinets that met their particular requirements, and put up built-in bookcases to receive the rebound volumes of old literature and new volumes on current guns and cartridges. They now have about 2500 books on guns, ammunition, explosives, and other subjects related to ordnance engineering. This all costs money, and little was coming in; but White had realized when he started the project that it would have to be a long-term investment. The business of collecting and refinishing the building to accommodate expansion went forward quietly, month after month. In 1939 Munhall became manager of the company.

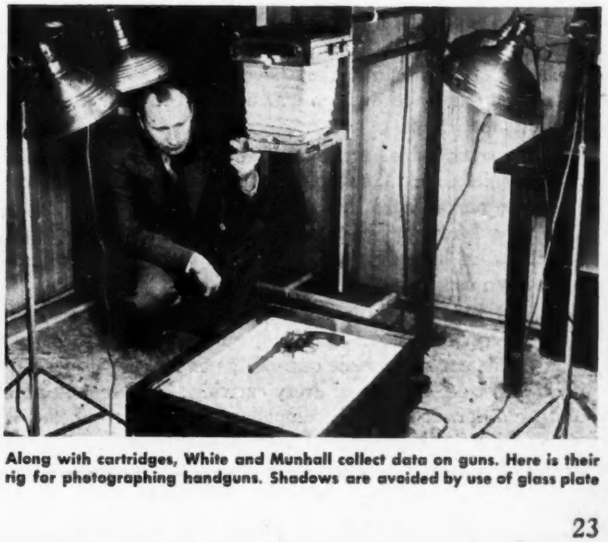
Three years later, White, who held a reserve commission in the Army, went on active duty with Army Ordnance at Aberdeen Proving Ground, where he was placed in charge of the bombing fields and made responsible for collecting primary ballistic data on aircraft bombs. Munhall, because of physical handicap, could not enter the service. He kept the work going forward in Cleveland during the war, and at the same time took an active part in the Defense Training Program, giving a course in military explosives at the Case School of Technology.

Since the war, the company has gone far toward a realization of White's first idea. The old stables are hardly recognizable. Stalls have been ripped out to make room for a machine shop. The old harness room has become an electronic workshop where White spends much of his time. The large carriage room, 20 by 40 feet, contains the cartridge collection. On wooden pegs in the pine walls hang military and sporting guns, old and new. There were 447 guns on hand a year ago.

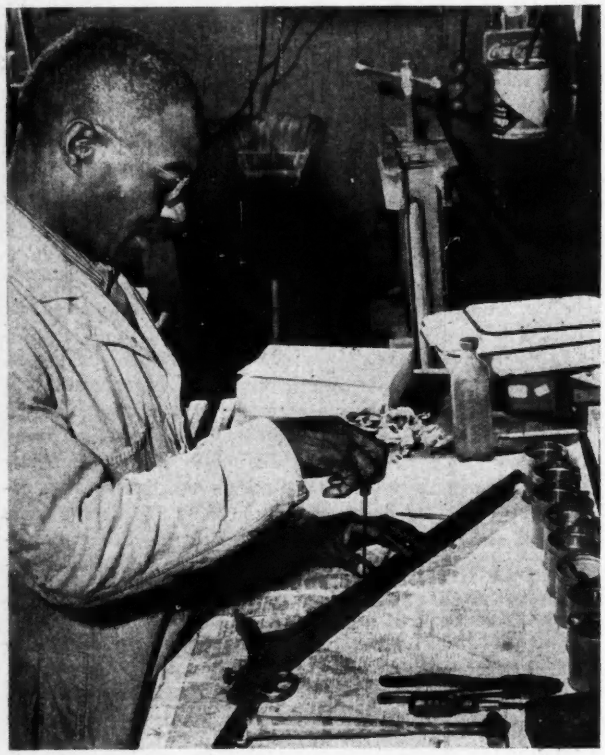
The cartridge collection is in a converted wooden printer's type file. Name a cartridge—practically any cartridge—and



Orderly filing system is heart of any good research organization. This is one of White Company's cabinets, with corrugated trays for cartridge samples



Along with cartridges, White and Munhall collect data on guns. Here is their rig for photographing handguns. Shadows are avoided by use of glass plate out of an index where data is filed by caliber, Munhall and White can pull a card showing the cartridge name and listing other names by which the cartridge has been known. Also on the card is their file number for the cartridge. With the aid of this number they can find the cartridge in the collection and whip out a card which gives dimensions as well as known ballistics. Knowing the number, they open another drawer and bring out a box containing all of the broken-down components, including powder out of one of the cartridges in question. In a letter-size file they have a card with the cartridge box labels and even box dimensions. In a matter of less than a minute you can have almost everything you want to know about a cartridge in front of you. After collecting and cataloguing 10,000 different cartridges, Munhall and White are still on the lookout for others. Included in their storehouse of information they have over 1300 factory base marks catalogued and data on 400 different manufacturers of ammunition.



Keeping the rust and dust under control can be a full-time job when you have almost 500 guns to look after. Henry Moore knows all of them inside and out

On the second floor are the offices and specialized laboratories; White's and Munhall's are in the front. Down the hall is the photographic lab and an office for White's secretary, Miss Margaret Koons—who, incidentally, also has a background of ballistic experience. She spent the war years at Aberdeen computing bomb-range tables.

In what used to be the old hayloft is another large room where the cartridges are identified, numbered for the collection, and file cards are made out. Off this room is the ammunition lab where samples of every cartridge in their collection are broken down so that all components can be examined. It also contains facilities for reloading in many calibers.

In the basement is a small but adequate sound-proof testing range equipped with the latest-type Potter counter chronograph and a Modern-Bond Universal receiver for taking pressure measurements. This equipment is used mainly for developmental research. Frequently, though, old arms and ammunition are tested to determine their ballistic qualities as a matter of permanent record. Shooting away rare cartridges may seem out of order to a collector, but the H. P. White company's business is information. They are not collectors as we usually think of collectors, nor are they dealers. They trade or buy only when they feel that it will mean something to them for reference purposes.

A couple of years ago they expanded their organization to take in Charles H. Yust, Jr. Yust knows his stuff in the identification of guns and ammunition. He has long been a student of the subject, and during the War worked for Colonel G. B. Jarrett at Aberdeen, spending full time on foreign material. Mrs. Yust also works for the company as Munhall's secretary.

The H. P. White Company has never advertised. As a matter of fact, they don't quite know what they would advertise, but they are prepared to do business as a source of world-wide information on guns and ammunition. Their services as consulting engineers are frequently sought by individuals or firms. They work closely with police departments in investigating shooting incidents or explosions. Munhall has been busy lately filling engagements for lectures. He recently addressed the members of the International Association for Identification at Houston, Texas, on firearms problems in crime. This association is composed of police scientific crime investigators from all over the world. Munhall was further honored by being appointed Chairman of the Subcommittee on Firearms Investigation of that body. He has an unusually suitable background for this, since the company has received many peculiar cartridges, as well as other explosive freaks, to identify or disassemble.

As to the future of the company, it is hard to say. White and Munhall are continually adding to their files and equipment with the ultimate view of having not only a comprehensive clearing house of arms and ammunition data but a fully-equipped testing station for research and experimentation. An extensive program of publishing their findings is slowly gaining momentum, and they are constantly striving to ferret the truth from the mass of misinformation that has accumulated over the years. When it comes to information on guns or ammunition—well, it's their 'stock in trade,' and they have a world of material, well organized and instantly available. The mass of data which they have accumulated will be a valuable source of information for generations. Hank White's dream, inspired by his first sight of an old stable, has paid off.

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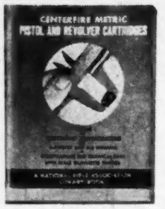


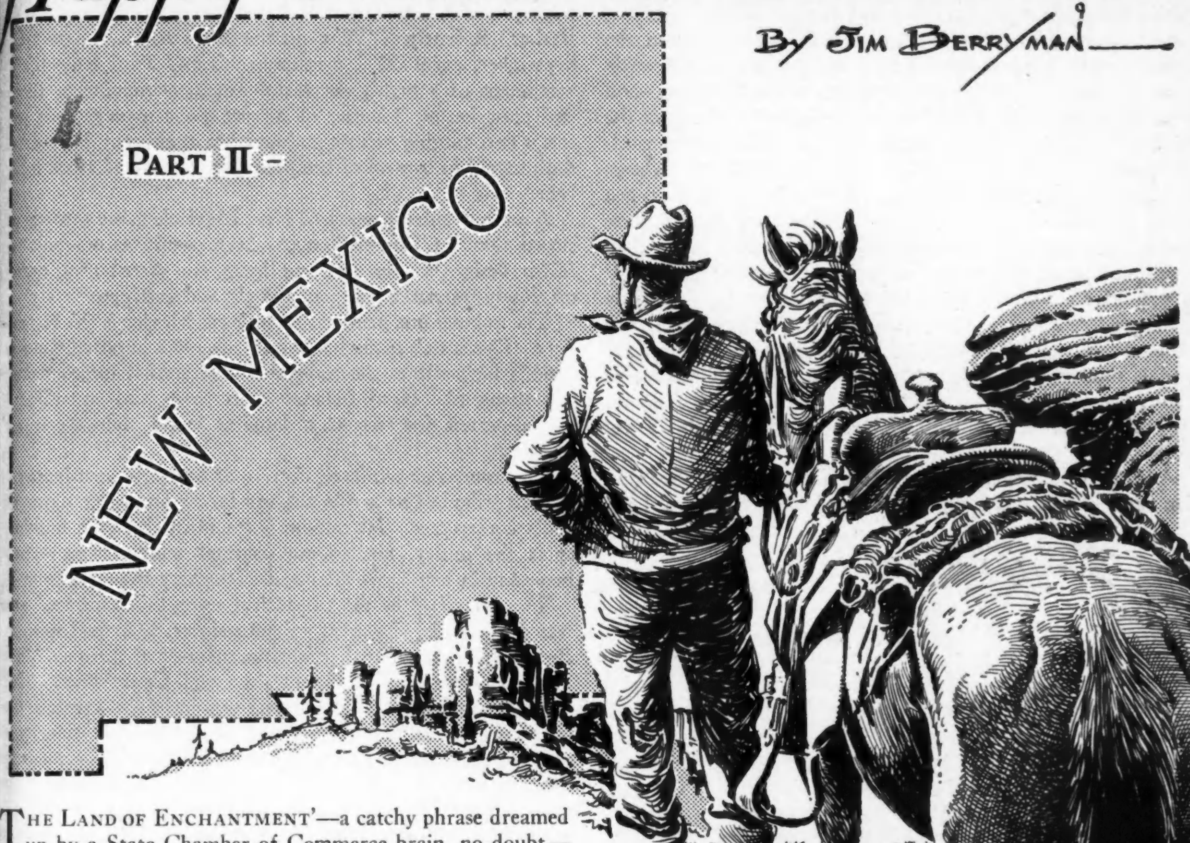
Most important result to date of H. P. White's researches is a book, "Centerfire Metric Pistol and Revolver Cartridges", to be released Dec. 1 (Sportsman's Press, $7.50). An NRA Library Book, it covers in exhaustive detail some 400 cartridges bearing metric designations (9 mm, 7.65 mm, etc.), and includes about 225 scale silhouettes. As the first book ever devoted to cartridge identification, it marks an important milestone in arms literature.

If their book is a success, White and Munhall hope to expand their researches to include all cartridges.

Happy HUNTING GROUNDS

By Jim Berryman

PART II - NEW MEXICO



'THE LAND OF ENCHANTMENT'—a catchy phrase dreamed up by a State Chamber of Commerce brain, no doubt—is no idle gagline to the hunting gentry. New Mexico, with as near everything as one large-sized portion of American terrain could possibly boast, is a veritable paradise from the shooters' viewpoint. And, strange as it seems, hunters do appreciate such things as scenery, climate, and historical background.

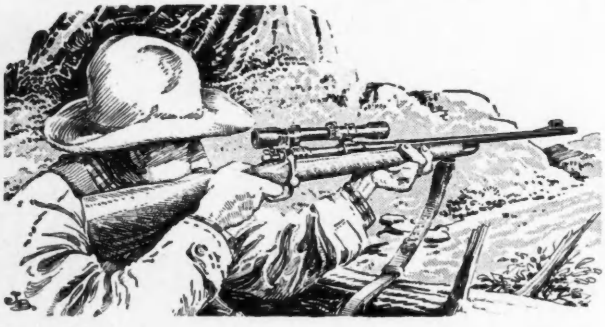
The old Spanish Territory is a land of fascinating contradictions. Next to the youngest of the 48 states, it happily—at last—mothers three distinct peoples: Indian, Spanish, and Anglo-American. The Indian civilization reaches back over a probable twenty centuries. The Spaniards held sway for nearly 300 years until Mexico, of which New Mexico was a part, obtained its independence in 1822. Then, 24 years later, Colonel Stephen W. Kearny took over for the United States, establishing the area as a Territory. A half-century of wild and wooly history written in sweat and gunsmoke followed. Finally, in 1912, New Mexico 'came of age' and attained full statehood.

The tapering southern fingers of the Rocky Mountains stretch down through the center of New Mexico. In these mountains, and in the Gila Range southwestward, are awe-inspiring forests totaling almost ten million acres in national reserves. This vast State is not a barren waste. Too many of the uninitiated harbor an erroneous belief that New Mexico is 'sort of an eastern extension of the Mojave Desert.' Well, 'tain't so podner, 'tain't so. The northern part of the State is a great plateau, several thousand feet above sea level, gashed by deep canyons and humped in the middle by the Rockies. The south and southeast is dry plains region which sweeps into the Texas Panhandle. The southwestern and south central sections (Otero, Dona Ana, Sierra, Luna, Grant, and Hidalgo counties) contain the desert stretch, murderously arid and hot, dotted with dusty cactus, scrawny greasewood, and creosote brush. But even within this seemingly forbidding area there are rugged piñon, pine, and juniper-clad mountains rising out of the desert to elevations of eight to ten thousand feet above sea level.

With an altitude difference of nearly eleven thousand feet between highest and lowest points, and temperature variations of some one hundred degrees, it can be understood readily why New Mexico has such an unbelievable variety of natural growth and cover. From desert yucca, the traveler can pass through scrub oak and juniper, climb through whispering pine forests, and struggle higher to the deep cathedral-stillness beneath towering Western yellow pine, shimmering aspen, and lordly Douglas fir. Beyond lies a belt of tall Englemann spruce and towering Alpine fir. Then timberline—a tremendous nothing-ness, beautifully arrogant as it looks down its craggy nose at the soft green world below.

New Mexico is Enchanted Land for the seeker after big game. It possesses six of the seven life zones found on the North American continent. Few areas on our globe provide such diversified sport for the rifleman who can shoot—and trek—long distances. New Mexico is the fourth largest of the 48 states and has mammoth virgin wildernesses wherein wildlife rules. Except for summer grazing of cattle and sheep, hundreds of thousands of acres remain virtually unchanged since the days, centuries ago, when flint-tipped arrows were the only disturbing elements in an animal Utopia. More than a million acres of the National Forests in the state are set aside as 'primitive,' in which no human habitation or timber cutting is allowed. There are six of these areas: The Mogollon Mountains; the headwaters of the Gila River; the Black Range, that high country mothering the source of the fabled Pecos; the White Mountains of Lincoln County; San Pedro Parks in Sandoval County; and Catron County's Blue River section.

Add to these seemingly limitless domains another five million acres of State and privately owned 'semi-primitive' land,



and you can draw your own picture of New Mexico. But make your rendition rugged. It's no land for the neophyte. Hunting in the awesomely wonderful country is more suited to the senior or post-graduate in the College of Nimrod. But if you've paid attention in the 'classroom' and done your 'homework' conscientiously, New Mexico offers dazzling rewards.

Three excellent deer species are found in satisfactory numbers: the Great Mule Deer, the Virginia Whitetail, and the Arizona Whitetail—or fantail as New Mexicans call him. Bear, elk, antelope, and mountain wild turkey are tempting in-season inducements to the sportsman-hunter. Mountain sheep and javelina are taboo at present. The wary cougar, snarling bobcat, and lawless coyote are all-year targets, but their challenge calls for keen-nosed pups, sure-footed ponies, and determined powder-burners.

The powers that be in the State Game Commission have not found it necessary to introduce alien species of wildlife into the State. Their chief aim has been to continue the existence of game native to New Mexico, game which knew wild sanctuaries centuries before white men and their 'bang sticks' venturied into the great Southwest.

I doubt that any western hunter, game conservationist, or outdoorsman will take issue with my firm belief that Elliott Barker, New Mexico State Game Warden, is one of the ablest men in this field today. Barker is not only a famous hunter and colorful writer, he is one of those rare human specimens, a sound theorist. Unlike economic and political theoretic dreamers, Warden Barker's theories are based on logical evolution. He studies cause and effect, then supplies solution. For proof, check over New Mexico's game statistics. Balance the State's wildlife population of 1922 against 1947—you'll like what you find—and you'll doff that battered sombrero to Mr. Barker. Recently, ("Wind in the West Again," RIFLEMAN, September, page 32) I mentioned his and Paul Russell's development of a highly successful antelope-trapping system to reallocate herds. Another of his pet game management projects is encouraging private maintenance of efficient dog packs as a direct aid in control of the predatory puma and stock-killing bear.

A more detailed perusal of New Mexico's game records will reveal that the Commission has been keenly astute and very fair in designating seasons, bag limits, and distributing permits on closely restricted game such as elk and antelope.

The number one game target in New Mexico is the big mule deer. The State's many herds total around a hundred thousand head, which allows a comfortably safe annual hunter-take o ten thousand. Herd balance with forage is controlled b special-permit doe seasons, ordered as found necessary in each locality.

The handsome whitetail deer is, of course, a relative of th eastern tribe but as a rule slightly larger and a bit more ruggedly constructed. He seldom is found in the steep highlands as is the muley, but follows normal whitetail patterns o browsing in brush, woodland, and thickety-stream bottoms.

The fantail—'the most beautiful thing with antlers,' as h was described by the great animal painter, Charles Livingsto Bull, is the tiniest North American member of the deer family He has other names: Sonora deer and Coues deer. He i hardly more than half the size and weight of the Virginia dee but he is a prize worth striving for. And strive the hunter mus to bring one home. The fantail is as crafty as he is swift an small. I remember asking a New Mexico rancher-hunter som years ago if the fantail was a disappearing deer. "Yup, sh is," he answered, "it always disappears a split second a-fore y bullet arrives at th' spot whar he wuz!"

The elk story in New Mexico closely parallels that of Ar zona. The native herds of Merriam and Rocky Mountain e had become completely extinct about 50 years ago. But t State Game Commission and industriously cooperating ranc men have restored the great antlered Rocky Mountain el Today the State's herd numbers well above 4,500. The Mi riam elk can not be brought back, for he was wiped off t face of the earth. The lottery system is used to grant permi to hunt them. A successful hunter of the preceding season denied a bid for a 'elk ducat' to the current brief 'open." La year saw 166 kills on 350 permits, close to 50 percent achiev ment—pretty good hunting in anybody's book.

The saga of the swift pronghorn in the State is a sweet sto Barker and his colleagues have succeeded in multiplying t little game target from less than two thousands animals years ago to near twenty-five thousand today. The seaso are determined at each August session of the Commission, af the census-taker has finished his rock-to-rock canvas.

New Mexico is the Bear State of the Southwest. While t surly grizzly no longer stalks the inaccessible high spots, t smaller, far less vicious black bear still holds forth. Contra to widely circulated stories, these bears are not killers, basicall Their main diet is bugs, berries, roots, herbs, nuts, and gra Most of the meat on a bear's menu comes from the remna of game and domestic animals killed by lions and coyotes disease. An occasional old bear develops such a taste for spri lamb, veal cutlet, or suckling pig that he's even willing to arg the point with the cursed two-legged men things. Needless say, such shaggy gourmets usually find that a second cou as a distinctly metallic flavor seasoned with gunpowder.

The bear hunt has a far better chance of reaching a successful conclusion if a specially trained dog pack is employed. Even then bruin will make it plenty interesting. Only those who have seen a bear 'on the lam' know how fast the clumsy-looking creature can travel. And he does not tree at the first opportunity as does the lion with a yowling pack in pursuit. A bear has far more endurance than a mountain lion and will cunningly run the dogs until they are winded almost to the collapsing point, then pick his spot and turn on the gasping pooches.

You can go bear hunting somewhere in the state from early September to the second week in December—the seasons are regulated by counties. However, no dog-pack hunting is permitted in an area during its open deer season.

When it comes to lion hunting, I believe I reflect the goose-pimply feeling of thousands of men—yes, and hundreds of women—who fondle the smoothness of a high-powered rifle and say, "Gosh! I'd rather shoot a lion than anything on earth." If you have the time, the ability to take rough going, and a fair-sized wad of nice green folding stuff, New Mexico can satisfy this burning desire. The lions are there. The Game Commission will be most happy to have you squeeze the trigger on Ol' Tom. They will give you all the necessary info as to where the most likely "hidey places" are, where to hire guides and horses, what you'll need in the equipment line, and provide you with the cheapest of the State's shooting permits . . . the Non-Game License is $10 for out-of-Staters. (If you live in New Mexico, why just go out and shoot yourself a nice fat pappy puma before breakfast—it's on the cuff.) The Non-Game permit also entitles you to miss all the coyotes in the state and give any bad-tempered bobcat a severe dose of lead poisoning.

On the subject of predators: Whether you've ever hunted mountain lions or just like to dream that someday you will, Elliott Barker's book, *When the Dogs Bark Treed,* is must reading. One of the country's great cougar hunters doesn't just tell you about his adventures, he takes you along with him.

New Mexico's Game Laws and Regulations are as simple and direct as any in the land. Southwesterners have never gone in for double-talk or wordy hokus-pokus. The most recent Commission publication says:

It is unlawful to:

Hunt or take antelope, deer, turkey, or elk with .22 caliber rifles using rim-fire cartridges, or any rifle using cartridges with bullets lighter than 46 grains, or any rifle with a muzzle energy of less than 1000 foot-pounds;

Use .30 caliber M1 Carbine in hunting game of any kind;

Use steel or hard-pointed bullets, except for hunting turkey.

Apparently, as far as bagging the predators is concerned, you can kick a coyote to death or use a Navy surplus four-incher on him, and no State Game Warden will tap you on the shoulder.

But it is a hard land. Game conservationists know only too well the brutal conditions under which wildlife survives, and they realize fully the unbending limitations nature has put on expansion. The State can not, and will not, issue blanket invitations to the nation's huntsmen, but it welcomes those who are willing to pay sufficient freight to help New Mexico carry on its far-sighted program and observe the common-sense hunting regulations.

The table of License Fees is:

Resident		*Non-Resident*
$3.00	Big Game—deer, bear, and turkey	$50.25
4.50	General Hunting—deer, bear, turkey, and all game birds	60.25
10.00	Special Antelopes Permit	40.00
15.00	Special Elk Permit	50.00
	Non Game License	10.00
	Bear, valid before and after regular Big Game Season	25.00

As in Arizona, the tried and true 'thutty-thutty carbeen' is top gun in New Mexico, that is, in numbers. The new West is so definitely .270 bent that a survey of this kind a decade hence will, in all probability, find the lever-action Winchesters and Marlins holding down the number two spot. But there is much to be said in favor of that old ranch favorite. The .30-30 is far superior to its predecessor of sixty years ago, the ancient .44-40, and its 170-grain bullet will knock over most western game within reasonable distance. But high trajectory arc and so-so accuracy do not meet today's hunting demands. The modern rifleman in New Mexico wants a high-velocity, flat shooting, deadly accurate firearm. His average opportunity for a shot is 200 yards or better.

Three New Mexico resident hunters with whom I talked last spring, Bev Mann, a former editor of THE AMERICAN RIFLEMAN, his cousin Claud Mann, and Emory Neilson, all of Albuquerque, agreed on the rifles for hunting in their state. Their concensus was: .270, .30-'06, .300 Savage, 7 mm. . . . and, yes, good old .30-30—in that order. All three had a cast-iron opinion that the .270 and .30-'06 should be telescoped, the .30-30 peep-sighted as a saddle gun.

For coyote and general varmint shooting, scoped Hornets and .220 Swifts are made to order, particularly throwing out HP's. Also, as in Arizona, hunters are highly intrigued by the .257 Roberts, but not enough of the breed are in general circulation to give much of a definite estimate.

Hunting conditions in New Mexico and Arizona are very similar. If ever the word hunt had a literal interpretation, it is in these two states. Not that game is scarce, but feed, cover, and water for wildlife are scarce. The animals and birds themselves are ever on the hunt, and few Easterners can comprehend the staggering size of the country. But the real outdoorsman gets a long-remembered thrill from a game-seeking expedition in such a land.

For the true sportsman, the rigors of the chase are as great a pleasure as the successful climax. For him, Arizona and New Mexico will always be HAPPY HUNTING GROUNDS.

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NEXT MONTH: By the time your postman delivers this issue of the RIFLEMAN, the NRA's first annual convention will be history. In December the RIFLEMAN will bring you the whole story on the big get-together, plus an account of the national rifle and pistol championship shoot-off staged as a feature of the convention. To round out the issue, there will be another of 'The Cookie's' lessons for the beginner small-bore shooter, and an article from the pen of the Southwest's own Walter Rodgers.

BRUSH SHOOTING

By FRANCIS E. SELL

A DEER IS SMART and he is fast. This, coupled with the fact that as a rule he is found in heavy cover, requires skillful gun handling to take one. It is not surprising that a special rifle technique has been developed by deer hunters.

The riflemen who have mastered the technique of brush shooting are the world's most practical game shots. They are prepared to take full advantage of any target presented in typical big-game cover. There is nothing esoteric about this type of rifle shooting, however. It is easily learned by the average rifleman-hunter. The old theory that one must be born or have spent all one's life in the game fields to become an acceptable brush shot is just so much eyewash. Some of the most effective game shots I hunt with, men who take deer in heavy cover consistently, are those with few opportunities to be in the game fields aside from a short time each autumn.

In attaining skill as a game shot it is most important to develop an understanding of the type of rifle shooting required in the heavy cover where ninety-five percent of big game is taken. Too many riflemen go into the game fields without the least idea of what will be required in the way of shooting. Unless one knows that he must take his shot offhand, and without deliberation, rifle practice cannot be shaped to the proper end.

There has been a rather loose use of the word snapshooting in describing this type of shooting. And a lot of untrue associations have grown up around it. Some inexperienced riflemen associate snap or brush shooting with shooting at each flash of color or movement of brush. Such shooting is criminally stupid. The technique only takes advantage of the short length of time the target is in sight, after it has proved legal.

The term snapshooting is too all-inclusive. Interceptive shooting is the better term, more accurate and more descriptive. Then a distinction can be made between swinging with the game, which is decidedly not snapshooting, and intercepting it, which is.

Game is seldom in sight constantly when put u
There are openings through which it passes in flig
then the brush obscures it. Trying to follow a de
swinging with the target, aligning the sights mea
time, is decidedly futile. The cover blots out t
game. It is lost and cannot be recovered in the sig
again. There is only one way of taking such sho
The game must be intercepted in an opening.

This rifle technique has much of the element
the quick draw with a handgun. The same premiu
is placed on speed and accuracy, but the analo
doesn't stop there. The artist with the handgun often h
some special way in which he carried his revolver in order
bring it into action with a minimum of delay. The meth
varied from one gunfighter to the next. Some preferred t
gun low on the hip, others carried it in shoulder holste
These peculiarities distracted none from the ability to get i
action fast. They were just individual solutions to a speci
problem. Somewhat the same thing obtains with the hunte
technique.

There are several different methods of carrying a rifle t
add to the speed with which it can be brought into action
heavy cover. By the same token, a rifle can be carried in su
an awkward manner that it is wholly impossible to get i
action speedily when game is put up. When this occurs t
rifleman cannot master the situation. He is pressed for ti
The initial element of surprise, and the time limit which
knows he cannot meet, place him at a psychological dis
vantage. In the ideal carry, every movement is in the dir
tion of getting the rifle to the shoulder, the sights on the ga

IN BRUSH SHOOTING YOUR CHANCES CO
AND GO IN A MATTER OF SECONDS. YOU'VE G
TO BE FAST, AND KNOW WHAT YOU'RE DOI

The experienced brush hunter usually carries his rifle
one of two positions. One of the most favored is the 'Ind
carry.' As might be expected from the name, it is of Ind
derivation. The rifle is carried in front of the hunter, crad
across his arms, with the barrel pointing to the left if
hunter shoots from the right shoulder. It points to the rig
of course, if he habitually shoots from the left shoulder.

The right-handed hunter has his hand in the shooting
sition, forefinger on the trigger, thumb on hammer or saf
The left hand is under the right. To get into action the ri
man has but to swing the rifle barrel out as he slides his
hand forward of the balance. This places the game un
the sights, and the rifle is brought to the shoulder while o
plane with the game. It is neither pointing over or under
any stage of the mounting. If it were fired, it would

pointed with sufficient accuracy to make a hit at average woods ranges. Ordinarily, though, the shot is made just as the butt touches the shoulder.

Notice, please, that there is no lost motion of any kind during the mounting. At first the process may seem awkward, just as the quick draw with the handgun during the first practice sessions seems so. But once actual practice has developed and smoothed the process, once rhythm and timing has been acquired, the entire process is deadly fast and accurate.

The eye of the hunter is never on his rifle during the mounting. He is watching the game, more important he is watching an opening through which the game is to pass. He will make his shot at that opening. There is no swinging of the rifle, no following of the game. The woodsman turns toward the point where he sees an opportunity of making his shot. Seldom does he move his feet, but swivels from the hip to bring the opening under his sights.

There is more misconception about the actual sighting in interceptive shooting than of any other detail of technique. There are those who claim they never use sights, that the entire process is one of pointing rather than aiming. In reality, the process of sighting is so speeded that it becomes more or less subconscious, but sighting there is none the less.

There is just as much sighting done as if one were shooting in the orthodox manner of bringing the rifle to the shoulder, finding the sights, then getting on the target. The only difference is that the process is reversed. In brush shooting the rifleman finds the game first, then the sights. The entire process is so speeded and coordinated that no single phase is dominant. The point of interest and the point of aim coincide.

While the 'Indian carry' is fast and accurate, plenty capable of scoring on fleeting targets, there is another method of carrying a rifle in heavy cover which is favored by many experienced riflemen. In this carry the rifle is grasped at the balance, just forward of the receiver. If the hunter normally fires from the right shoulder, he carries his rifle in his left hand. Then, when game is put up, his left hand sweeps the rifle out in front of him and up; the right hand finds its position with the forefinger on the trigger and thumb on safety or hammer. The instant the rifle touches the shoulder the sights should be on the target and the rifle fired.

There is no great choice between this carry and the 'Indian carry.' But under most conditions of heavy cover, where cautious stalking is a cardinal necessity, there is something to be said for carrying the rifle in either the right or left hand, depending on which shoulder the hunter shoots from. Then the other hand may be used to carefully fend branches and fern from the trail. It can also be used to hold a binocular to search out those shadowed recesses under the trees where a buck is apt to be lying up for the day.

Ten minutes a day practicing the brush shooting technique, over a period of three or four months, will work wonders for the inexperienced rifleman. Most practice time can be profitably used in 'dry firing.' Pick out an object as a target. A small mark on the wall will serve. Now, with your eyes *on* the target and your rifle at carry, bring the gun up to the shoulder, never once taking your eyes off the point of aim. Notice how the sights come up aligned. It is surprising how simple and easy the whole process is.

There should be a complete cycle in practice of mounting, firing, reloading. In this way too much emphasis will not be placed on any one phase of the process and each becomes subordinate to the completed cycle. Otherwise the hunter may become too deliberate in getting off the shot. It also will cure the tendency of trying to get better sight alignment, or rather cure the lack of confidence in the first sight alignment.

At the average woods ranges of fifty to seventy-five yards, it takes little practice to bring the rifle directly on the target. If the timing is such that the shot is gotten off at once, it will be found surprisingly accurate. But if there is the least hesitation in either sighting or firing, timing is off, inaccuracy results. This is especially true on moving targets.

Even at the expense of reiteration it must be emphasized that interceptive or snapshooting is not a reckless throwing of lead at a target dimly apprehended in the woods. Rather it is a method of efficiently using what time the rifleman has to make the shot, *after* the target is discovered to be *legal* game and not another hunter or perhaps a doe.

Just how fast is this type of shooting? That is a question which is often discussed around deer camps. From the standpoint of actual timing with a stopwatch, I do not know. But several riflemen with whom I hunt will take a deer the second time it touches the ground after being put up.

During the early days in the West a gunfighter wasn't considered too badly handicapped when he matched his lever-action Winchester against some bad man's handgun, especially if the range happened to be around forty or fifty yards. Even yet there is a persistent tradition that a gunfighter who matched a rifle against a handgun was taking an unfair advantage. Handgun speed is built on the fighting of about a dozen individuals. But the rifle also had its exponents. Harry Tracy, the Oregon outlaw, never inquired what his opponents were armed with. He asked no odds, and he was armed with a rifle.

A carry which allows fast mounting of gun to shoulder is a requirement of brush shooting. The two illustrated here are suitable for the woods

When one considers some of the present-day woods riflemen, that is not hard to believe. Many of them are masters of this most deadly rifle technique, the most effective method of shooting in heavy cover. It is a simple, easily learned method of shooting, but make no mistake—it must be learned if the rifleman is to have something better than chance to fatten his average in the autumn wood.

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OUTDOOR RECORDS

EVER WONDER WHO HOLDS WHAT RECORDS, AND WITH WHAT SCORE? HERE ARE ALL OF THE MAJOR OUTDOOR NATIONAL RECORDS FOR BOTH RIFLE AND PISTOL . . .

How good can a shooter be? The scores listed here provide a pretty fair answer to that old question. Here are the top tallies recorded in NRA registered competition . . . the national records for all of the commonly-fired outdoor rifle and pistol courses. And an impressive array they make . . . Woodring's Dewar course possible with 37 X's . . . Harry Reeves' clean score with eighty additional tens . . . Otto Kolb's forty-shot, forty-five X possible . . . Gloria Norton's almost clean sweep of women's pistol records. These are the scores you've got to beat if you want to see your name on a national record certificate!

In a forthcoming issue we'll list the indoor records for rifle and pistol . . . to complete this up-to-the-minute listing of the shooting game's top performances.

Woodring

Carlson

Cook

Moore

Bockman

NATIONAL OUTDOOR SMALL BORE

Individual, Metallic Sights:		**Date:**	**Score:**
Dewar Course	W. B. Woodring, E. Alton, Ill.	1939	400-37X
40 shots at 50 yards	E. H. Cushing, Claremont, N .H.	1948	400-39X
40 shots at 100 yards	Dave Carlson, New Haven, Conn.	1941	400-36X
40 shots at 50 meters	Mart Henning, Corapolis, Pa.	1947	400-34X
	C. C. Whipple, Greensburg, Pa.	1947	400-34X
20 shots at 200 yards	C. C. Whipple, Greensburg, Pa.	1939	199-12X
Individual, Any Sights:			
Dewar Course	W. B. Woodring, E. Alton, Ill.	1939	400-37X
40 shots at 50 yards	Otto Kolb, Pelham, N. Y.	1948	400-40+5X
40 shots at 100 yards	R. Parry, Walnutport, Pa.	1947	400-35X
	Arthur, Cook, Washington, D. C.	1948	400-35X
	R. H. Dorian, Kansas City, Mo.	1948	400-35X
40 shots at 50 meters	Jack Folk, Philadelphia, Pa.	1948	400-39X
20 shots at 200 yards	A. F. Goldsborough, Los Angeles, Cal.	1936	200-14X
Aggregate (40 Shots at 50 yds., 100 yds., 50 Meters, and Dewar Course):			
Metallic Sights	Dave Carlson, New Haven, Conn.	1941	1600-114X
Any sights	E. H. Cushing, Claremont, N. H.	1948	1598-120X
Total of both	G. Wayne Moore, Washington, Pa.	1947	3194-209X
Four-man Team:			
Dewar course, metallic	National Capital R & P Club	1948	1591-94X
Dewar course, any	National Capital R & P Club	1948	1597-117X
Individual, Metallic Sights (Junior):			
Dewar Course	Arthur Cook, Washington, D. C.	1946	400-32X
40 shots at 50 yards	Arthur Cook, Washington, D. C.	1946	400-29X
40 shots at 100 yards	Ernest L. Blocher, Elkhart, Ind.	1948	400-22X
40 shots at 50 meters	John Symmes		399
Individual, Any Sights:			
Dewar Course	Arthur Cook, Washington, D. C.	1946	400-30X
40 shots at 50 yards	Earl Taylor, Waynesburg, Pa.	1948	400-36X
40 shots at 100 yards	Audrey Bockman, Ridgefield, N. J.	1947	400-31X
40 shots at 50 meters	John Ward, San Carlos, Cal.	1948	399-27X
Individual, Metallic Sights (Women):			
Dewar Course	Cora Converse, Oak Glen, Ill.	1941	400-30X
40 shots at 50 yards	Elma Cornish, Los Angeles, Cal.	1948	400-35X
40 shots at 100 yards	Anna Lou Barker, Chillicothe, O.	1948	400-23X

40 shots at 50 meters	May E. Kell, Deerfield, Ill.	1941	400-29X
	Elinor Bell, Los Angeles, Cal.	1948	400-29X
20 shots at 200 yards	Mrs. L. P. Bartlett, Ft. Worth, Texas	1939	194-6X

Individual, Any Sights:

Dewar Course	May E. Kell, Deerfield, Ill.	1948	400-31X
	Ruth E. Davis, Los Angeles, Cal.	1948	400-31X
	Ruth Beals, Kansas City, Mo.	1948	400-31X
40 shots at 50 yards	Viola E. Pollum, Brooksville, Pa.	1948	400-37X
40 shots at 100 yards	Ruth E. Davis, Los Angeles, Cal.	1946	400-32X
	Marianne Jensen, Parma, Ohio	1948	400-32X
40 shots at 50 meters	Adelaide McCord, Sewickley, Pa.	1948	400-36X
20 shots at 200 yards	Mrs. L. P. Bartlett, Ft. Worth, Texas	1939	197-4X

NATIONAL OUTDOOR PISTOL

Individual, .22 Caliber:

50-yard slow fire	Harry Reeves, Detroit, Mich.	1940	198
25-yard timed fire	Harry Reeves, Detroit, Mich.	1948	200+80 10's
25-yard rapid fire	Huelet L. Benner, Ft. Knox, Ky.	1947	200+25 10's
Camp Perry Course	Huelet L. Benner, Ft. Knox, Ky.	1948	300+10 10's
National Match course	Harry Reeves, Detroit, Mich.	1946	297

Individual, Center Fire:

50-yard slow fire	Harry Reeves, Detroit, Mich.	1948	198
25-yard timed fire	Harry Reeves, Detroit, Mich.	1948	200+50 10's
25-yard rapid fire	Emmett E. Jones, Los Angeles, Cal.	1946	200
Camp Perry Course	Jack Ahern, San Francisco, Cal.	1947	298
	Kenneth Kolb, San Francisco, Cal.	1948	298
National Match course	Alfred W. Hemming, Detroit, Mich.	1938	298

Individual, .45 Caliber:

50-yard slow fire	Harry Reeves, Detroit, Mich.	1941	194
25-yard timed fire	J. R. Tucker, USMC	1940	199
	Emmett Jones, Los Angeles, Cal.	1948	199
25-yard rapid fire	F. M. O'Connor, Kansas City, Mo.	1942	198
	Paul Knepp, Pasadena, Cal.	1948	198
	Harry Reeves, Detroit, Mich.	1948	198
Camp Perry Course	Harry Reeves, Detroit, Mich.	1943	297
National Match course	Thurman E. Barrier, USMC	1941	292
	Harry Reeves, Detroit, Mich.	1946	2621

Individual Aggregate (Slow, Timed, Rapid and Nat'l Match Course):

.22-caliber	Harry Reeves, Detroit, Mich.	1946	890
Center fire	Harry Reeves, Detroit, Mich.	1948	881
.45-caliber	Harry Reeves, Detroit, Mich.	1948	876
Three caliber	Harry Reeves, Detroit, Mich.	1946	2621

Four-man Team:

.22 Camp Perry Course	Detroit Pistol Club	1946	1178
.22 National Match Course	U. S. Treasury	1941	1172
C.F. Camp Perry Course	U. S. Treasury	1941	1183
C.F. National Match Course	U. S. Treasury	1941	1156
.45 Camp Perry Course	U. S. Marine Corps	1944	1146
.45 National Match Course	Detroit Police Team	1941	1140

Individual, .22 Caliber (Women):

50-yard slow fire	Esther Sichler, Temple City, Cal.	1940	190
25-yard timed fire	Gloria Norton, San Francisco, Cal.	1947	200
25-yard rapid fire	Gloria Norton, San Francisco, Cal.	1948	198
Camp Perry Course	Gloria Norton, San Francisco, Cal.	1941	299
National Match course	Gloria Norton, San Francisco, Cal.	1941	295

Individual, Center Fire:

50-yard slow fire	Gloria Norton, San Francisco, Cal.	1948	189
25-yard timed fire	Gloria Norton, San Francisco, Cal.	1947	199
25-yard rapid fire	Gloria Norton, San Francisco, Cal.	1947	192
Camp Perry Course	Gloria Norton, San Francisco, Cal.	1947	296
National Match course	Gloria Norton, San Francisco, Cal.	1941	289

Individual, .45 Caliber:

50-yard slow fire	Bobby Rutherford, Los Angeles, Calif.	1940	174
25-yard timed fire	Gloria Norton, San Francisco, Cal.	1948	195
25-yard rapid fire	Gloria Norton, San Francisco, Cal.	1948	182
National Match course	Esther Sichler, Temple City, Cal.	1939	274
	Gloria Norton, San Francisco, Cal.	1948	274

Barker

Barrier

Reeves

Benner

Jones

Hemming

Ackerman

O'Connor

AMERICAN RIFLEMAN

here's appleby!

Pole cat Crick
general store and P.O.
Okla.

Dear sire:

The black smith he come up the other night they call him the b.s. down here fer short. The b.s. sed he had bin wanten to write to you fer quite a spell but nowen the waye my ole woman feels about you sense you published her picture that way smoken a cob pipe like she do he sed he was kind of afraid to mention it to her. he sed he heared of places up town there where they dun tiperiten fer folks and you paid them fer it he sed he even went so fer as to get on the bred waggen

and ride up to town to see about it one day, he sed he found the place alrite but they allowed it would cost about a dollar fiftey a sheet to do it but he didnt have no idee how many sheets it would take to say what he wanted to say as he never writ by the sheet before. he sed it looked to hymn like maybe a coupla sheets would be about three dollars whitch was a lot of money in his business. He sed he figgered they was no use goin to town and spendin no three dollars for what you could get done passably at home fer nuthen so he come on home. he sed he figgered if I could get my ole woman to rite it down maybe she could get that woman with the tiperiter to tipe it out so you could read it fer nuthen. he sed so fer as he knew she aint charged no one nuthen as yet fer doing it but just do it fer the practice and

he sed from what he had seen of her tipen he figgered she needed the practice purtey bad. he sed in case you didnt think

mutch of her typen to tell you that she maid her liven taken in sowing and that he figgered maybe she was about as good on the tiperiter as you are on the sowing machine. he sed he was ketched up enough now that he figgered he could do a littel gun tinkering in the evening again but come warm weather ever time he opened up the shop like in the evening a passel of yapes come in and set down and hung around spinnen a buncha windys. he sed it would not be so bad but they found out about him inventin that screw tail bumb and how it went off and blowed the back end outa the shop and they kept maken sly smart alexck remarks and kept him so bothered he could not keep his mind on his business enough to get nuthen done. he sed it was not so bad whan he was nocken out plow shears on the anvil and could let on like he didn't hear them. he sed they worried him so foolin around like that that one even when he had a gun barel to polish out he just rapped it up in a old tote sack and took it home with him. under the other arm he took his Monkey Wards one fourth inch electrick drill. he sed when he got home he putt the

drill in the vice on the work tabel he has out there and taken a spool he unwound the thread from off of it and bolted it up on a quarter inch bolt so about a one inch stuck out of the end of it. This one inch that stuck out he put in the chuck on the drill. then he tore off about a yard of this new kind of emery paper that comes about a inch wide on cloth and in big rolls. he sed he took sum stickum and fastened the ends of this piece together making a endless belt of it. he sed then he put one end of the belt over the pulley and the other end over the gon barrl and when he turned on the R.E.A. electricity he shure went to town in nuthen flat. he sed he just set down on a ole appel box and kind of resten the gon barl on his nees like and kind of turnen it round and round and back and forth slow like he sed he never seen sand paper go over a gun barl so fast he sed he figgered maybe a lotta folks was like him and didnt have mutch to werk with and mite want to know about this as it was mightey quick and easy and slicked them up mightey fast. he sed lately he had made a better one

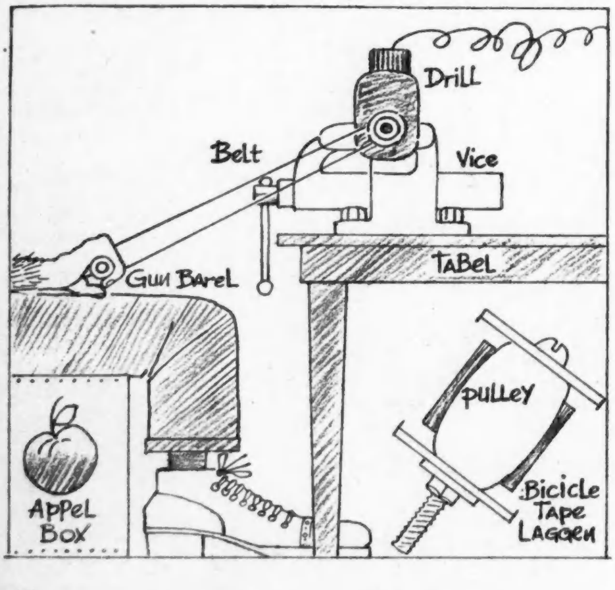
but he started out with a spool and he figgered any one else could do likewize and improove on it to suit themselves. he sed it helped a lot to sort of crown it up in the middel like a regular pulley. he sed after you got used to doin it you could do it with flourishes like taken a half hitch or a half turn in the belt and run the smooth side on the pulley and the rough side on the gun barl and make the pulley last better. he sed the last time

he drawed anything for you you kind of made ramarks about his drawin and he figgered if you wanted aney more drawin made you could do it yourself but he sed he figgered this mite be a littel hard for you to understand like and maybe he would do the best he could at drawin a picture of how it worked.

He sed take his ole man fer instance when he was liven and was b.s. down here he allus sed that readen and riten was o.k. fer smart folks but any dern fool could look at the pictures, now you take me fer instance i never was mutch on readen and riten but i was always a mightey slicke one with any kinda tools and i looked at this picture he made and i seen rite off just what it was all about

he sed he just wanted to rite and tell you about this new riggen but my ole woman sez she aint got no more time to waste on me now riten it down as i go as she has got to go out and snap out some green corn or we aint goin to have nuthen to eat and we aint got much as it is.

as ever your friend
Bill appleby



A RIFLEMAN "HOW-TO-DO-IT"

DCM TREASURE

BY T. B. GRESHAM

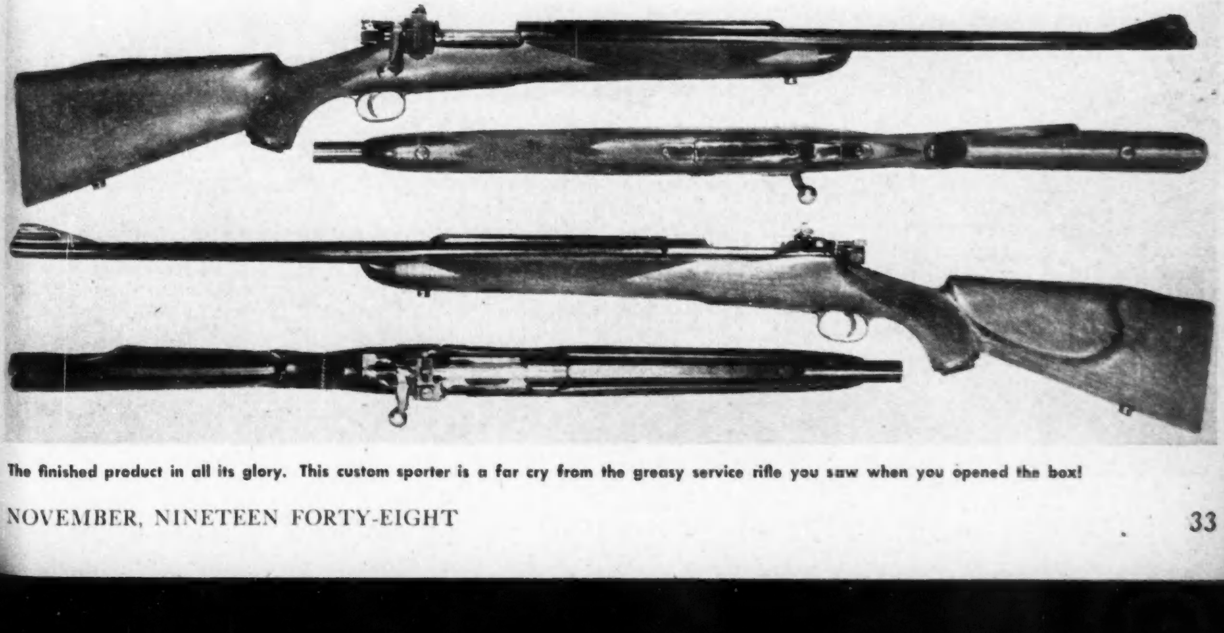
CONCLUSION: HERE ARE TOM GRESHAM'S FINAL DIRECTIONS FOR THAT SPRINGFIELD SPORTER YOU'VE BEEN WORKING ON

When Paleolithic man went forth and slew the charging mammoth he returned to his cave and carved on a tusk a record of the deed, and on the weapons he had used he scratched and carved some lines and curves that added beauty in his eyes and lent them better balance in his hands. The five-foot rapier of the Florentines that balanced lightly as a feather in the hand was fashioned and chiseled with all the grace and art of Florence in her mighty golden age. Matchlocks, wheel-locks, flintlocks, and percussions too, all tell us a story of artist-armorers through the years who in the fashioning of men's weapons for sport and war tried to make a happy compromise between the function and the beauty of the arm. A study of this effort shows that nowhere down the line does mere elaborateness or costliness of ornamentation constitute a criterion for proper appraisal. Compare the simplicity of a 'Kentucky' rifle with a contemporary gold-inlaid continental fowling piece. Or, take a modern Teutonic three-barreled gun encrusted with gold birds and dogs but with housings for a cross-bolt sticking up like sick thumbs, against a Purdey, a Woodward, or a Holland. Or compare an Owen, Shelhamer, or Linden sporter with the most highly-carved and decorated Mauser that ever came out of Germany. What I'm trying to say is, that a study of the history of beautiful arms will show that you and I can build fine sporters without spending a fortune for engraving, carving, and gold inlays.

The sporter shown in this article is a hard one to build and still keep what we want in lines. I am going to discuss this heavy one because it shows all the things needed on a lighter job and a few more too. Mr. P. D Oakey of Blacksburg, Virginia, gave me this nut to crack. He wanted a heavy combination sporter-target rifle to be used with either iron sights or a target telescope. This rifle has a 24-inch, straight tapered barrel and weighs just under 9¾ pounds. The fore-end is fuller than is required on a light rifle and therefore the stock must be fuller over the action. The fore-end measures 11½ inches from the front edge of the receiver. This is just about one-half the length of the barrel from receiver to muzzle. The fore-end tip is a tip, not a large chunk of something added on. The barrel was fully inletted into the stock blank to half its diameter. Then, as the shaping of the fore-end progressed I cut the top line down toward the tip, the curve starting very gently back at the front of the receiver and increasing toward the tip. This takes some of the curse off the heavy barrel and with any barrel helps it to blend in as a part of the stock. Make it a curve, not a straight line, and don't overdo it on a light sporter. I stole this idea from an Owen sporter belonging to Col. Sheldon.

The floor plate is bedded into the stock, not left sticking out of the wood. The corners and edges of the plate have been slightly rounded to blend in with the wood of the stock.

Photos by Peyton Richmond



The finished product in all its glory. This custom sporter is a far cry from the greasy service rifle you saw when you opened the box!

The cutoff and its housing have been bedded to half depth into the stock. The slight swell of wood around the metal at this point would be undercut more on a lighter rifle with a thinner fore-end and thinner wood over the sides of the action.

The tip of the comb is well forward and is undercut slightly for the right thumb but this is evenly blended into the side of the stock. It is definitely not the sharp groove that we see on some gun handles. Front edge of the comb should be about over the middle of the pistol-grip cap.

Follow directions in an earlier article for the layout of the pistol grip. You can vary the basic dimensions to suit the size of your hand without violating the principle of the design. If you can't draw in the forward curve use the 'paper-doll' method that we used on the guard and tang last month. Don't let the whole pistol grip hang down below the bottom of the stock like a long handle. I once made a stock for a match rifle with a pistol grip to fit perfectly in my rather small hand. It was long and thin with a bulge in the middle to fit the palm and it had a much swollen-out black pistol grip cap to keep my hand from sliding off at the bottom. I was very proud of it until a certain irreverent heathen named Gilbert Strailman christened it the "posterio-ventral-appendage-of-a-male-canine-quadruped stock." His actual terminology, however, was brief and distressingly crude.

Make the comb full in any case. You are not going to shave with it. The thickness of the cheekpiece can be varied to suit your type of facial beauty and whether you intend to use a scope or iron sights. Remember that the thicker the comb and cheek-piece, the higher the comb will seem. But whatever thickness you use, make the cheekpiece thinner at the front than it is at the back. If you reverse this that rifle is going to sock you in the puss every time you shoot it. Make the lower edge simple and rounded, not sharp. Leave filigree, fretwork, and fancy moulding for the frame of your grandmother's portrait. It looks fine on grandma but this, along with a lot of fancy inlays and carving, is a pretty sorry thing to do to a fine piece of walnut. If you are an artist-sculptor go ahead. Me, I'm a bit of a wood-carver but I've never tried to put decorative carving on a gunstock. Fine wood, good checking, and good lines are the things that count for me. I don't want my stocks to look like a Swiss music box with a still life and a Tyrolean peasant with a couple of dancing bears.

The Winchester 70 buttplate is good. If you want a lighter one get the best grade of pressed horn. Some of this plastic stuff may be O.K. but what I've seen is pretty sorry. Get a plate that is fairly flat. One that is very much rounded in either direction makes the kick seem harder. Whatever kind you get you had better go over the side that fits next to the stock with a flat file to get rid of some of the bumps and hummocks. These make it very hard to fit properly.

When it comes to the selection of stocks in the blank I've got to admit I'm pretty dumb. Perhaps I'm dumber still to admit that I can't look at a piece of rough-sawed plank and speak about as follows: "Ah, yes, first-grade Circassian walnut from the Jura Mountains; air dried for five years in the log, three more in the plank and then kiln dried to a moisture content of 7 to 10 percent. This blank will show an excellent figure." I've heard guys who said they were good enough to do it, but me, I ain't got sense enough, so I have to pick a specialist in wood just as I pick a specialist in medicine or law.

I am not going to give you instructions at this stage of the game on the ABC's of laying out and inletting a stock. Most of this has been covered in previous articles but here are a few ideas about working from the solid blank.

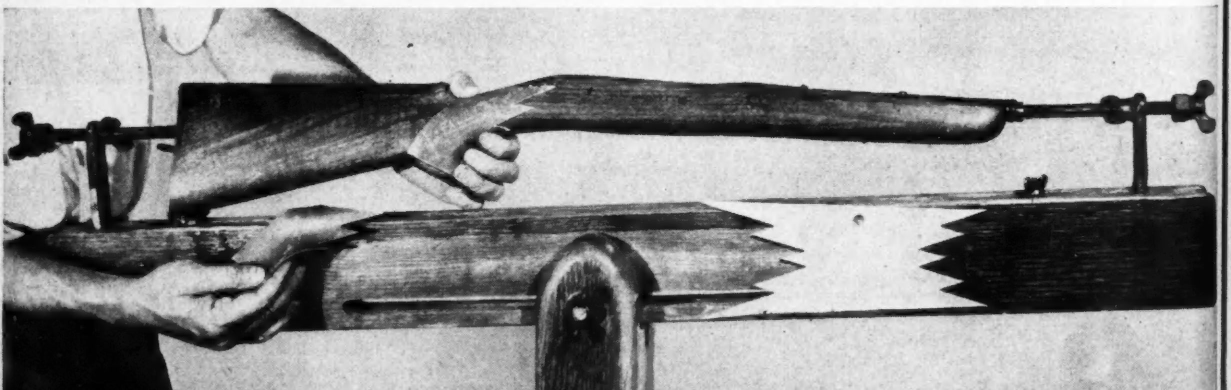
1. Plane the top and both sides of the blank; the sides to be parallel and both of them square with the top. If you use a jointer on a very hard, curly blank be sure that the blades are sharp and take light cuts or you will pull out a lot of rough pieces.

2. Lay out a slightly oversize pattern on the side of the blank. Cut this out on a bandsaw or large jigsaw or have it done. Be sure not to run over the lines. Plane the top where the barrel and action go in and be sure that you keep it square with the sides.

3. With a carpenter's marking gauge or a surface gauge scribe a 'center line' all around the edges of the stock. Paradoxically, this line does not have to be in the exact center. It is called the 'center line' because it is the center from which all measurements are taken in inletting the barrel, action, and trigger guard. It does have to be parallel with both sides of the stock, but if your blank is on the skinny side, you can lay it out a little nearer the right hand edge in order to give you plenty of wood for the cheekpiece.

4. From the old stock or by laying the magazine on the side of your blank, locate the fore-and-aft position of the front guard screw. On the bottom of your blank, mark and center punch this position on the center line. Start a hole with a small drill and finish up with one ¼-inch in diameter. Be

This is gunsmith Tom Gresham's checkering cradle. For the home-workshop man the cradle can be far simpler in construction and still do the job



particularly careful to get this hole exactly on your center lines both top and bottom; that is, parallel with the sides of your blank and square with its top. All measurements for the fitting of the trigger guard and action are taken from this hole, so if you get it cockeyed you are in trouble before you start and trouble will stay with you to the end of the job.

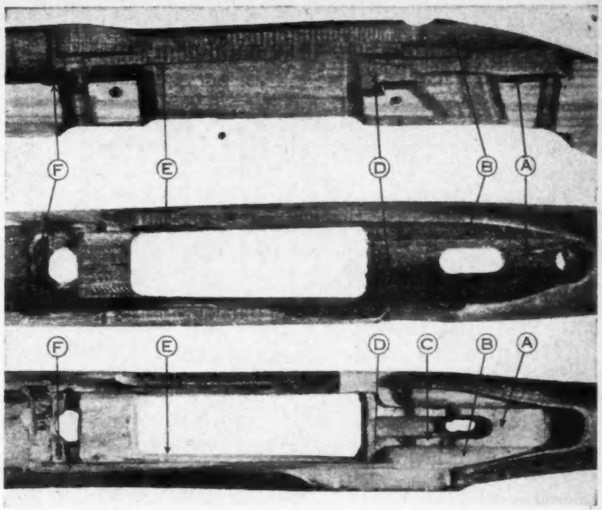
5. Measure the distance from the center of the front guard-screw hole to the outside of the front of the magazine box. With small dividers, lay off this distance on your center line and with a square scribe a line across the bottom of the blank at this point. Measure the length of the box and scribe another line across the stock to mark the position of its rear edge. Measure the width of the top of the magazine box at both front and rear. (The top is narrower than the bottom.) Set your dividers for half of each of these dimensions and from the center line find the front and rear corners of the magazine recess. Now scribe lines from front to rear corners for the sides. This detailed description gives you the principles of layout from a center line and zero locating hole to be followed for the rest of the inletting.

6. Drill a series of 3/16 or ¼-inch holes not quite touching each other and not quite touching the inside of the outline of the magazine. With a thin chisel or with a coping saw blade inserted through one of the holes cut out the webs between holes. A block will drop out leaving a perfectly square start on the magazine mortise.

7. With a ¼-inch brass or steel pin through the 'zero hole' inlet the magazine and trigger guard, checking frequently to make sure that the magazine is going down square both from a front-to-back and a side-to-side direction and be careful that the rear tang goes down exactly in the middle. Inlet every detail of the magazine and trigger guard. If you want a first-class stock, inside as well as out, don't copy the short cuts of the machine-inletted military stock.

8. When the trigger guard is flush or almost flush with the bottom of the blank start in and inlet the barrel and action. For this you will need one long rear-guard screw with its head turned down to the size of its shank. Use this in the action in place of the front guard screw while you are doing the inletting. In the picture at A, B, C, D, E, and F you will see a lot of wood that is not found in the military stock or in the so-called 'fully-inletted blank.' This wood stiffens and strengthens a stock that you are going to want to stay put on an accurate rifle for a period of years. Bed the whole barrel and action evenly and tight, relieving only the ends of the two tangs, the rear corners of the magazine, and the rear of the housing that is over the right locking lug. This free floating and flapping-around stuff may be O.K. for heavy match or experimental varmint rifles but what you are building now is a deluxe sporter. I sometimes wonder if some of the apostles of the flabby flapping barrels are not influenced by the amount of work saved. When you have the barrel and action down to half depth complete the sinking of the guard.

9. Now for the hole for that rear guard screw. Saw off half an inch of the threaded portion of an extra guard screw, turn a 60-degree point on the end and screw this into the rear tang, point out, being sure that it does not go out of sight where you can't get it. You might put a couple of small flats on the point down next to the threads so that you can unscrew it with some fine-nose pliers. Put the barrel and action back into the stock and tap the rear tang with a mallet until you get a good deep mark from the sharp end of the screw. Drill and tap your drill press table for a ⅜-inch steel rod with a center point turned on one end. Screw the rod into the hole in the table and locate the table so that a ¼-inch drill in the chuck will exactly hit the point of the rod when the feed handle of the drill press is pulled down. With the trigger guard in place in the stock, put the rear hole of the guard on the point of your center pin and drill into the punch mark on top; first with a center drill and then on through with ¼-inch drill. Now you can put in the barrel and action. The hole for the rear guard screw should line up perfectly. With the guard screws drawn up very tight you should just get a piece of paper or three- to five-thousandths feeler gauge between the top of the magazine and the action. And this should be even all around.



Here is the difference between machine inletting and a careful hand job. At top are two views of the inside of an issue Springfield stock. Below them is a similar view of a hand-inletted stock. Note all the points at which wood has been left in place in the hand-inletted job to give additional strength

10. Shape, sand, and whisker your stock and then prepare to take a long time for your 'oil finish.' I do not mean a lot of hand rubbing and hard work but I do mean waiting long enough between coats for the half-and-half mixture of pure raw linseed oil and best marine spar varnish to thoroughly oxidize and harden. Apply a good thick coat with a wadded-up piece of lint-free cloth and let the stock stand until it is thoroughly dry and hard. This should take a week to ten days in very dry weather or when the furnace is on. Rub it down to the wood with fine 'wet-or-dry' paper, rub in another coat—light this time—and let it dry. Repeat this operation until a jeweler's glass shows that the pores of the wood are full even with the surface. Then rub down once more and buff lightly with a soft muslin or sheepskin buff and rottenstone. You can moisten the buff slightly with linseed oil to make the rottenstone stick.

I've had bad luck with all sorts of linseed oil which paint and hardware salesmen swore was the real McCoy. I finally went to a drug store and got a little that works. You better tell the man you want it for a sick cow. I don't know enough about cows to know the disease they are heir to that is cured by pure linseed oil, but I do know that the kind of oil that is good for one is the only thing for the other.

11. The checking cradle shown in the picture is a lot more of a gadget than you will need but it does show the basic idea of what you will want. You can check a stock without a cradle but you have to be damn good to get away with it. The top bar is a piece of 2 x 4 with a groove cut in the top with a router bit or dado head for the supports for the centers to slide in. This bar is held to another short piece of 2 x 4 with a ½ x 13-thread stove bolt with a wing nut on the end.

Instead of using the heavy oak tripod that I have on mine you can hold the short piece of 2 x 4 in the jaws of your swivel-base vise and instead of having the hole slotted along the side so that the top bar slides back and forth on the short one you can just drill in holes at intervals so that you can change the position of the top bar by removing the wing nut and moving down to another hole.

The adjustable centers are made of square or hex-head ½ x 13-thread bolts with about an hour's lathe work to turn the heads into cup centers. The arrangement of lock nuts and standard wing nuts is shown pretty clearly in the picture. The supports for the centers are made of a couple of pieces of bar iron of a convenient size bent to a right angle. Drill and tap the top part for a ½ x 13-thread and drill a plain hole through the bottom for a bolt and wing nut to hold these pieces down to the top bar of the cradle. Mine is slotted full length this way too but you will find the cradle stiffer and just about as convenient if you drill a few holes as needed. Now take a piece of broomstick and put it in the barrel channel. Hold it down with a couple of screws, and be sure the screws are not long enough to go through the bottom of your nicely-finished stock. Now you can use one of your centers in this and the other in the middle of the butt and you are all ready to start in and lay out your checking pattern.

12. Some folks seem to be able to lay out a pattern for the checking of a pistol grip on a piece of paper, cut it out, lay it on the side of the pistol grip and scribe around it. I just can't seem to make the blessed thing lie flat around all those curves while I do my scribing, so I first cut one out of paper and then cut a couple to match out of sheet lead. Then I can fold one around the stock on the right hand side and the other on the left, adjust them to exactly corresponding positions, scribe around them and be sure they are going to match up when I am through. In the picture of the cradle I have one held on the stock and its mate for the other side held in my hand. You will not have to do this for the fore-end pattern because this is flat enough and does not have any compound curves. I have the pattern which matches the grip pattern used tacked to the front of the cradle. I held this around the stock with tire tape while I was scribing the outline. The most elegant checking usually has the points of the design determined by the lines of the checking and the border is a very narrow double-spaced row—or if you are really good you can use no border at all. A good wide fancy border covers up a multitude of slips and sins of the careless workman. Checking with fancy curved borders is much easier to put on because you do not have to make the angle of your lines so exact.

Do not fall into the most common error of the beginner and make your diamonds too nearly square. Lay out your pattern so that your diamonds will be at least 2½ times as long as they are wide. I like a three-to-one ratio better. That is what I have used on the Oakey stock shown in the pictures and in the patterns shown with the checking cradle.

How do you check a stock? That, my friend, is like kissing a girl. It is something you learn by trying. And like kissing a girl it isn't hard but you must practice to give a good performance. You will probably spoil a lot of stuff practicing. There are a lot of hammer handles around my shop that are pretty well spoiled. When you get over this stage, tackle the old military stock and when you have made a satisfactory job on that go to work on the real thing.

Perhaps when you've finished the job and sit admiring your handiwork, the shades of the old riflesmiths will come trooping back from the past and, looking over your shoulder, whisper in ghostly chorus, "My friend, well done." ◆ ◆ ◆

* * *

Lincoln as a Rifle Shot

On one occasion (in 1861) the President, with Gen. McClellan, paid a visit to the camp (of Instruction of the Union Army), and were invited by Col. Berdan to the rifle range where shooting was going on. To show what the men could do in rifle-pits, a target representing two zouaves painted on canvas, was placed at a distance of 600 yards. One hundred men with their heavy target-rifles, were placed in a pit, where each fired one shot. When the target was brought in, it was found that every shot had struck within the outline of the two figures. President Lincoln fired three shots from a globe-rifle belonging to H. J. Peck, of Company F, while Gen. McClellan and some others tried their skill. . . .

After which, Col. Berdan being called on, proceeded to execute some difficult shots, by knocking out the right eye of a zouave painted full length on half of an "A" tent, and which was done with a James telescope-rifle. He fired three shots, all easily found within the parts selected—the head, right breast, or the left thigh. Referring to this shooting afterward in connection with his efforts to get us properly armed, he said:

"Then occurred one of those extraordinary accidents from which great and beneficial results often follow. Thomas Scott, The Assistant Secretary of War, thought to gain a point by attacking me personally, and asked me what I knew about guns and war that I should set up my opinion against all these officials, and ended by challenging me to fire, thinking doubtless, I would decline, or, if I accepted, to get the laugh on me by my making a bad shot. I at once accepted, and ordered the men to bring out a target; the only one left was the figure of a single man, full size, with the words 'Jeff Davis' painted above his head. I remarked that I did not think it was exactly the thing to fire at Jeff Davis in the presence of the President of the United States. Mr. Lincoln laughed heartily and replied:

" 'Oh, Colonel, if you make a good shot it will serve him right.'

"I stepped forward and began to bring the gun to my face. Thomas Scott then remarked:

" 'What point are you going to fire at?'

" 'The head,' I replied.

" 'Fire at the right eye,' he shouted. I was then taking aim and made no reply, and it is hardly necessary for me to say, that at that distance—600 yards—I did not aim at the eye, but I did fire at the head. The target was brought in, and as good luck would have it, I had cut out the pupil of the right eye. No man knew better than President Lincoln how to turn what he knew to be an accident to good account. He began to laugh, and kept on laughing until he got into his carriage and then said:

" 'Colonel, come down to-morrow, and I will give you the order for the breech-loaders.'

—From "Berdan's United States Sharpshooters in the Army of the Potomac," by Capt. C. A. Stevens, 1892.

tomorrow's match program

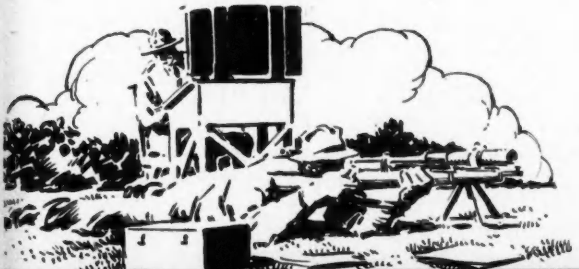
By C. B. Lister

Today's plans and tomorrow's tournaments. The second of two challenging discussions by the NRA's executive director

Last month, NRA executive director Lister discussed the background of today's competitive program, and outlined the changes in basic structure which have occurred as the shooting game has come of age. Here, in a concluding installment, he elaborates on his ideas for the tournaments of the future. His thoughtful analysis of today and tomorrow in terms of courses, classes, and arms is "must" reading for every club member, every competitive rifleman and pistolman.—Ed.

State Championships

IN THE competitive program of tomorrow, state championships will be the first of the "big" tournaments. They will be the annual events to which the club shooter points his course as he moves from club competition up through his "district" tournaments and leagues. Because the state championship will be a part of the "big-time" circuit (state—regional—national) it will be more closely coordinated with those tournaments both as to programs and to dates. Some matches which may be particularly liked by the shooters of one state (although not popular elsewhere) will be included in the state tournament as "added features," but the state championship will consist of standard courses of fire similar to those fired in other states and in the regional and national championships. Probably not in the next decade, but eventually, the number of competitors will reach a point where no regional range will be able to accommodate efficiently all from the region who, regardless of skill, might want to attend "just to shoot." When that day comes the state championship will serve as the qualifying round to determine those who are eligible to compete in the regional championship. The state championships will become the "quarter finals" in the race for the national championship. Intelligent planning for the future will bear this contingency in mind and will start now the adjustment of state championship programs to fit them into this ultimate over-all picture. An "all-comers" championship may well be included in the state championship tournament but, when we reach the point of considering the state shoot as a qualifying round for the regional, eligibility rules for *The* state championship will necessarily limit participation in *that* event to residents of the state.



The time has already arrived in many states, will eventually arrive in all, when it will be impossible to accommodate at one time, on one range, all who want to participate in the small-bore, pistol and service-rifle state championships. Each shoot will have to be held on a different week-end, probably on a different range. Careful planning and co-ordination will be necessary to avoid conflicts in dates between these championships and to get them in ahead of the regionals. Small-bore position matches, rapid-fire matches, even moving-target matches will become a part of state championships programs. Surprise-fire and running-deer matches, probably free-rifle events, will be a part of the high-power rifle programs. Running-man, perhaps surprise-fire events, certainly the Olympic-type "bobbers", will be found in the pistol championships. More stress will be placed on team matches.

Where state associations are non-existent or inactive, state championships will be arranged by the NRA and conducted by local clubs.

Regional Championships

Small-bore and pistol shooters have become accustomed to the idea of regional championships, although few realize that the regional program was still in the "cut and try" stage when the war put a stop to competitive activities. In the .30-caliber field "divisional" (regional) matches were held in 1914, in 1926, and from 1932 to 1934. In each of those years the divisional matches were merely intended to be a "better-than-nothing" substitute for the National Matches for which Congress had failed to make appropriations.

Looking to the future, three things are perfectly clear:

1) There is no range in the country large enough to handle the National Matches on the "all-come, all-served," three-ring circus basis which prevailed in the pre-war era.

2) The manpower requirements in the Armed Forces for foreign duty, recruit and reserve training, and field maneuvers will prevent the detachment of troops to be sent any considerable distance to operate a match over a three- or four-week period during the outdoor shooting season. Neither will it be practicable to expect that commanders of tactical units will want to detach good officers or non-coms for all-summer training and competitive tours of duty on service team squads.

3) There is considerable interest and active support among Armed Forces officers in all command grades for theater, army area, divisional and fleet small-arms competitions which can be integrated with training schedules and fired on not-too-distant ranges manned by station or post troops. There is complete willingness to open such matches to civilian club teams and individual marksmen.

Matches of the type indicated in (3) spread shooting interest throughout the Armed Forces from company up through regimental and divisional organizations to the army commanders. They eliminate most of the obstacles which have interfered with Army participation in a nation-wide competitive program.

They give an opportunity to many civilian club teams and individuals who would not be able to participate in a match on a far distant range. Such matches will not be a ***substitute*** for the National Matches, nor will they be so viewed by anyone. They will be "semi-finals" and as such will serve a tremendously valuable purpose in the "encouragement of marksmanship throughout the United States" and in creating a public sentiment favorable to small arms practice.

Thus the regional match program of the future will probably be divided into three sections:

1) Small-bore regional championships generally conducted by civilian clubs, sometimes by units of the Armed Forces, but always under uniform conditions laid down and directly supervised by the NRA.

2) Pistol regional championships similar in plan to the small-bore regional championships.

3) High-power rifle regional championships conducted by the Armed Forces under the joint sponsorship of the National Board for the Promotion of Rifle Practice and the NRA. Schools for coaches and instructors may well be a part of these programs.

All three programs in each region must be co-ordinated to avoid conflicts in dates. Schedules of matches and courses of fire must be kept compact to avoid waste of time but courses of fire must be modernized to appeal to the greatest potential number of shooters. Team matches must not be neglected.

Eligibility to participate in the national championships with each type of weapon will be determined in these regional "semi-finals."

National Championships

It has been shown in the preceding discussion that:

1) In the beginning the "national" matches at Creedmoor were intended to develop standardized training methods both for individual marksmanship and for proper range management; to develop standardized rules and regulations; to encourage the construction of good ranges.

2) As a result of NRA activities, standardized training methods *were* developed for the Armed Forces and civilian clubs; hundreds of military and civilian ranges of standard types *were* built; standardized rules and regulations *were* adopted.

3) As a direct result of 1) and 2) the entire structure of the shooting game has changed from an inverted pyramid based on the national championships to a pyramid resting on the activities of hundreds of clubs and military units with the national championships as the capstone to which competitors seek to climb. Basic training is now done at the grass roots. Advanced training, team organization, and coaching are acquired through local, district, state, and regional competitions. It thus becomes apparent that the national championships are no longer the place where basic training can be, or should be, undertaken. To accomplish their present-day mission of providing the ultimate in competitive stimulation for the shooting game, the national championships must be something that a competitor has to work up to. It must become a matter of particular pride to be able to say "I shot my way into the national championships."

Because the nation needs not one, but many, first class ranges, there is no longer justification for the War Department or the NRA to concentrate their available resources on the development and maintenance of one "national match" range which will be used for national championships and little else. Ranges regularly used by civilians and the Armed Forces should be improved, as many of them as possible, to a point where they can stage national championships.

Because organized shooting is no longer confined to the East Coast or to any other one area, it is no longer wise *always* to hold the national championships in any one area, thereby forcing competitors in other areas always to take the time to travel long distances to compete in the blue-ribbon event of the shooting world.

Because the primary purpose of the whole competitive program is "to encourage marksmanship throughout the United States, particularly among civilians, both as a sport and for the purpose of qualifying as finished marksmen those individuals who may be called upon to serve in time of war" it is the part of wisdom to include in the national championships events which will interest all types of shooters—civilian, military, and police. National championships, as well as tournaments on the lower rungs of the competitive ladder, should include competitions for target, service, and sporting weapons and courses of fire should include position matches, moving-target matches, and "bobbers" as well as the 'traditional' types of event originated at Creedmoor three generations ago. Interclub and inter-unit team matches must be prominent features of the national championships to foster local organization *esprit de corps.*

The dates of the national championships should be late enough in the shooting year to permit their being the climax of the season.

Indoor Shooting

The development of *indoor* regional and National Championships in the not-too-distant future is a program which should be carefully considered. It would tap a "market" of competitors who are not reached during the outdoor season.

Classification or Handicap

Every sport has found it advisable to install handicapping or classification systems. None are ever completely satisfactory but they seem to be necessary to encourage wide-spread participation. The NRA classification system, started on an annual basis in 1939, has had less than six full competitive seasons in which the "bugs" might be worked out. During that time experience has shown:

1) That competitors are not satisfied with an annual classification. For that reason special computing machinery and card-index files have been installed, making it possible to re-classify competitors from week to week throughout the year.

3) Except at large tournaments there is a great disparity in lower part of each class that they are unable to beat the competitors at the top of their class. At the same time competitors in the uppper part of the lower classes often make higher scores than those made by shooters in the bottom part of the next higher class.

3) Except at large tournaments there is a great disparity in the number of competitors in the various classes at each shoot even though, on a nation-wide basis, the distribution is well planned. This results in an over-abundance of awards in some classes as compared with the ratio of awards to competitors in other classes.

4) If prizes of equal value are awarded in all classes the cost of conducting a shoot is quite high and top competitors complain of lack of worthwhile prizes to compensate them for the time and money spent in attaining their high degree of skill. If prizes are graduated in value for the various classes, competitors in the lower brackets complain that they are discriminated

against and the classification system is not living up to its promise of "an equal chance for all to win."

5) If match bulletins are broken down into classes, the listing of scores in order of excellence is wrecked. If bulletins list scores in order of excellence, merely indicating, by a side notation, the class winners, no one but the Masters at the top receive any public recognition. Whichever system is followed, there are complaints from competitors and newspaper men.

These constitute an imposing list of complaints as to the value and practicability of the classification system after six seasons of development.

Would a point handicap system work any better? Such a system would not eliminate all the headaches, but this much can be said for it:

1) With the machinery and organization now available a point handicap system can be mechanically handled.

2) It would be as flexible as the existing current classification system and might be a bit more flexible.

3) It could be planned so that a competitor entering his first tournament would not be required to "shoot over his head" as is now the case when he has to enter the Expert class.

4) By eliminating the uncertainties as to the number of entries in each class and by eliminating the need to furnish separate groups of class awards it would be possible to award better prizes at lower net expense to the tournament.

5) In handicap events the numerical (point) handicap would *really* make it possible for every shooter to win a place award.

6) Although the shooter of average ability would sometimes beat the Master in "handicap" events it would be possible to concurrently stage "open" events in which the handicaps would be disregarded and the best shot would win.

7) All bulletins, both for 'open' and for 'handicap' events would list the competitors in the order in which they stood at the end of the match, eliminating any confusion in that respect.

This is an imposing list of reasons for changing from classification to handicap in the match programs of the future. Obviously many details would have to be worked out and some changes would need to be introduced, based on operating experience. This matter is being referred to the NRA's small bore and pistol committees for study and recommendation.

Amateur and Professional

Since shooting has become a recognized national sports activity with a place in the Olympic program and with competitors in the intercollegiate and interscholastic fields, the question of "amateurism" has become important.

It is true that "amateur" rules vary in almost every sport but it is also true that every nationally-recognized sport has found it necessary to face the issue and to set up "amateur" and "professional" classes. This matter, too, is being referred to the competitive committees for study and recommendation as to tomorrow's competitions.

Suggestions Wanted

Every major war has resulted in changes in shooting equipment, courses of fire, and competitive ideas. The Spanish-American War brought the end of the large-caliber, slow-fire era and introduced the .30 caliber bolt-action and rapid fire. World War I brought the end of nation-wide popularity for the Schuetzen game and introduced the small-bore, bolt-action rifle, the outdoor small-bore game, and the rapid- and timed-fire pistol and revolver matches. World War II brought the general acceptance of the semi-automatic and keen interest in "surprise fire." After each war there has been a period of argument between the older generation with their eyes on 'tradition' and the younger generation with their eyes on current trends. Such arguments are unfortunate but inevitable. The really important thing to observe is that each change *has* resulted in progress in the encouragement of small-arms practice. After the Spanish-American War organized target shooting spread from a few National Guard organizations to the National Guard and Regular forces all over the country. Interest among civilians increased. After World War I, NRA membership grew from 2,400 to 80,000, and civilian clubs expanded to a nation-wide network of 2,000. After World War II we find membership reaching over 300,000 and clubs in 6,000 communities. Tradition can be a valuable guide but it must not be permitted to be a barrier in the way of developing a competitive program for tomorrow along the lines required to hold the interest of this new generation and to utilize the new equipment which World War II has left in our hands.

Planning for future competitive programs will be done by the high-power rifle, small-bore rifle, and pistol and revolver competitions committees and the Executive Committee of the NRA. The competitions committees are composed of active shooters and can be broadened at will to include not only the devotees of the present standard courses of fire but also shooters who are interested in position shooting, moving targets, and any other type of shooting which may help to "encourage marksmanship throughout the United States." Members who are interested in "Tomorrow's Match Programs" are urged to write to the Competitions Section, NRA Headquarters, 1600 Rhode Island Ave., Washington 6, D. C., expressing their views and reporting pertinent experiences.

* * *

CHANGE OF ADDRESS: Please report changes of address direct to the National Rifle Association, allowing five weeks before change is to take effect. Be sure to send your old address, preferably address label from the RIFLEMAN, together with new address. Copies that have been mailed to an old address will not be forwarded by the Post Office unless extra postage is sent to that office by the subscriber. Avoid such expense, and make sure of getting your RIFLEMAN promptly each month by notifying the NRA direct, in advance of change. Address the National Rifle Association, 1600 Rhode Island Avenue, Washington 6, D. C.

.30-'06
8mm.-'06
8mm.

8MM-'06 WILDCAT

HERE'S A WAY TO GET THE USE OF THAT 8 MM. RIFLE FOR WHICH NO AMMO CAN BE OBTAINED

By BYRON E. COTTRELL

MOST 'WILDCAT' cartridges are designed and made to give better ballistics than factory hulls. The 8mm.-'06 is different. It was designed so easily available cases could be used in the German military rifle.

For some time it has been difficult to get standard 8 mm. ammunition, so the idea developed to chamber the 8 mm. rifle to take a .30-'06 case expanded at the neck to handle the larger bullet. The heads of both cases are the same, and the bolt and extractor will work with no changes. Too, plenty of .30-'06 cases—both new and fired—are to be had. The magazine of the military 8 mm. rifle will handle the 8mm.-'06 cartridges without change *if* round-nose bullets are used and *if* the bullets are seated in the case so the cartridges will go in the magazine.

A friend of mine, V. Gipson, of North Salem, Ind., has rechambered a lot of 8 mm. rifles and headspaced them the same as the standard .30-'06. As far as I know every one has proven satisfactory. In fact results are much better than was expected. The rifles thus altered not only handle easily obtainable cases, but they give superior results.

Any .30-'06 tool can be used to deprime and reprime the cases. All the extras needed are an 8 mm. expanding plug and neck-sizing die (a Belding & Mull tool is handy). Then you will need some kind of a bullet seater—the best of course is the die and plunger type. Some standard 8 mm. bullet seaters with adjustable dies can be used. Anyone who is familiar with reloading will have no trouble loading the cases.

Besides the factory bullets—when you can get them—two good sources of 8 mm. bullets are Spear and Barnes. A common weight is 170 grains, which is the best one to use in unaltered magazines.

I cannot recommend maximum loads, as there is quite a difference in the bore diameter of different 8 mm. rifles, which greatly affects pressures. However I can say that any load that is correct for use in a .30-'06 can be used safely *with the same weight* of bullet in the 8 mm.-'06. Very often the .30-'06 loads can be increased by several grains. With 150-grain bullets, I have used 56 grains of No. 3031 powder. With the 170-grain bullet I used 52 grains of No. 4064. For any heavier bullet I recommend No. 4350.

I have used 55 grains of No. 4350 and a Barnes 250-grain spitzer bullet, and found it a fine shooting load. Some rifles might handle a little more of this powder, but very likely others would require less. A charge of 52 grains of No. 4350 and the 250-grain bullet would be safe to start with.

To use the 200- and 250-grain spitzer bullets the magazine must be altered or the loads fired single shots.

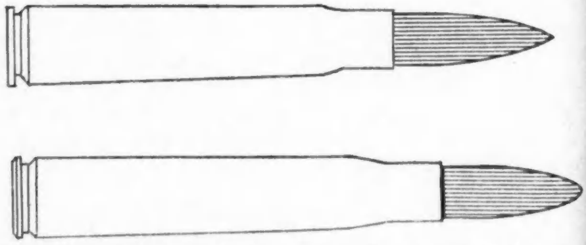
In every case of rechambering the standard 8 mm. for the 8mm.-'06, the accuracy was as good or better than it was before the change was made. The twist of the 8 mm. handles both the 200- and 250-grain bullets perfectly.

The rifle thus altered, will, of course take a standard .30-'06 cartridge and fire it, if one should get it by mistake. No serious damage would result as the bore of the 8 mm. is larger than the .30 caliber and the pressures would be low. Also there is no danger of getting a 8mm.-'06 case in a .30-'06 rifle—it just won't go. Exactly the same condition exists with regard to the .270 W.C.F. and the .30-'06, and no one ever heard of any trouble with them.

When the 8mm.-'06 is used with heavy bullets, it is a real killer of large game—elk, moose, and big bear. With the 250-grain bullet it is in the class of the .35 Whelan or the .300 Magnum and 220-grain loads. It has been used and recommended by many of our best riflemen and hunters, including Elmer Keith and Fred Barnes. They have called it the 'poor man's Magnum.' I also know of several men who have plenty of fine Magnum rifles in their racks who use the 8mm.-'06 just because it is good.

If you have use for a good powerful rifle and lack the necessary cash for a real Magnum, the 8mm.-'06 is one way to solve the problem. Or maybe you have plenty of fine rifles but don't like to take one of them on a hard trip into the north country, where it is bound to get banged around, wet, and may go uncleaned for days. Maybe an 8mm.-'06 is just what you are looking for. Anyway it won't cost much to find out. Also, it makes a good cheap deer and bear rifle with the 170-grain loads. In any case, it will give you something to play around with.

◆ ◆ ◆


8mm.-'06 cartridge is combination of 8mm (above) and .30-06 (below)

THE OLD COACH'S PAGE

The wise shooter—and the one who progresses in his ability to make good scores—is the one who recognizes the need for certain basic references in his shooting technique, references which enable him to forget one phase of match shooting and concern himself with the problems of other phases. This month the Old Coach presents a basic reference he has worked out which may be of value to others in solving one problem which is met on the range—changing sight settings with some degree of precision.

SMALLBORE TARGET ELEVATIONS

Among a good many .22 shooters of my acquaintance, there is some confusion regarding the effect of the height of a sight on sight zero at various distances. As a rule, the experts stick to one combination of equipment which, having been calibrated for each range used, gives no difficulty. That's one reason they are experts. But duffers like myself—cranks more than crack shots—too often slap on a new scope or iron sight assembly just before a match and, because 50- and 100-yard ranges are all too seldom available for preliminary practice, lose much valuable time and temper on that mysterious rite of "sighting in." Recently I observed a first-rate match shot, on the 100-yard range for the first time of the season, busily plinking into the dirt backstop to "line up" his scope. He hadn't been able to hit the paper, although the same rifle and sights had been in efficient use at fifty feet all winter. It seems that no shooter is immune to the problems met in changing sight settings.

The accompanying tables were roughed out with the help of a friend and a slide rule, in an attempt to eliminate some of the difficulty of changing the sight setting from one range to another that has been encountered by myself and by others who are reconciled to a relationship between theory and practice. Elevations have been reduced to quarter-minute quantities corresponding to the standard sight clicks and are computed in inches for five different sight heights. The thirty-four-foot range added to the usual target distances is the length of a handy cellar makeshift and should come close to the distance fired on other such ubiquitous facilities. If not, its presence on the tables is valueless.

The actual quantities given in the tables have no particular value; the *difference* in elevation from range to range is what makes them useful. For example, with sights one and one-half inches above bore axis and set to zero in at 50 feet with low-speed ammunition, a minus three-click adjustment is required to zero in at 50 yards (44 minus 41), and a plus twenty-three click adjustment is required to zero in at 100 yards (67 minus 44). These quantities are obtained from Table A. Table B is for use with intermediate speed ammunition, and Table C for use with high speed.

No charts or tables will take the place of keeping an accurate record of sight adjustments, but they can dispense with unnecessary fooling around when equipment or ammunition is changed. In actual practice, the use of these tables brings the first sighting shot near enough to the ten-ring to make final zeroing a simple matter of visual calculation. ◆ ◆ ◆

TABLE A

22 Long Rifle, 1,100 foot-seconds muzzle velocity, elevations in ¼-minute clicks.

Sight Height	*Range*								
	34 ft.	*50 ft.*	*75 ft.*	*50 yds.*	*50 mrs.*	*100 yds.*	*100 mrs.*	*200 yds.*	*200 mrs.*
.75 in...	32	26	26	35	37	64	70	133	151
1.00 in...	40	32	29	37	39	65	71	134	152
1.25 in...	48	38	33	39	41	66	72	134	152
1.50 in...	57	44	37	41	42	67	73	135	153
1.75 in...	65	49	41	43	44	68	74	135	153
2.00 in...	74	55	45	44	46	69	75	136	154

TABLE B

22 Long Rifle, 1,180 foot-seconds muzzle velocity, elevations in ¼-minute clicks.

Sight Height	*Range*								
	34 ft.	*50 ft.*	*75 ft.*	*50 yds.*	*50 mrs.*	*100 yds.*	*100 mrs.*	*200 yds.*	*200 mrs.*
.75 in...	31	25	24	31	33	57	63	124	138
1.00 in...	39	31	28	33	35	58	64	124	138
1.25 in...	48	37	31	35	37	59	65	125	138
1.50 in...	56	43	35	37	39	60	66	125	139
1.75 in...	64	48	39	39	40	61	67	126	140
2.00 in...	73	54	43	41	42	62	67	126	140

TABLE C

.22 Long Rifle, 1,375 foot-seconds muzzle velocity, elevations in ¼-minute clicks.

Sight Height	*Range*								
	34 ft.	*50 ft.*	*75 ft.*	*50 yds.*	*50 mrs.*	*100 yds.*	*100 mrs.*	*200 yds.*	*200 mrs.*
.75 in...	29	23	21	25	27	45	50	100	112
1.00 in...	38	29	24	27	28	46	51	101	113
1.25 in...	46	35	28	29	30	47	51	101	114
1.50 in...	55	40	32	31	32	48	52	102	114
1.75 in...	63	46	36	33	33	49	53	102	114
2.00 in...	71	52	40	35	35	50	54	103	115

THE SPOTTING SCOPE -- November 1948

Finland, heroic defender against Soviet power nine years ago with its small but gunwise citizen army, is the subject of another distressing AP bulletin from Helsinki, . . . "The Communist press said yesterday that Soviet Union had demanded dissolution of Finnish rifle clubs allegedly made up of former members of the outlawed home guard." . . . Russia, which used it against Germany, appreciates the threat of a trained citizenry against an aggressor . . . Governor Earl Warren, of California, Republican vice-presidential candidate is now a Life Member of the NRA. . . . Dr. Logan J. Bennet, author, wildlife management expert, and NRA member, is the new Chief of the Fish and Wildlife Service's Branch of Wildlife Research. . . . Art Cook, Eastern Regional and Olympic smallbore champ and contender for the National Championships, has been awarded a scholarship at the University of Maryland for his remaining two years of school.

Add friends of shooters (and of the country) . . . The Boston (Mass.) Record and New York Journal & American in straight-forward editorials ask that "in the next Army appropriation bill the traditional provision for small-arms training, to which much of our military fitness has been due, should be fully restored." . . . The newspaper blasts at Congress stem from an editorial carried in The American Rifleman. . . . So you think there is not any shooting news carried in American newspapers . . . well, in the first nine months of this year, clippings received by NRA's Public Relations Division alone total 257,000 editorial lines, would stretch more than a half mile if laid end to end, would cost nearly $100,000 if paid for at prevailing average advertising rates . . . and can only represent a fraction of the real total of press space, much of which is not seen at Headquarters. . . . To prime that pump, NRA's Public Relations had sent 2,375 news stories, reaching each of 5,667 daily and weekly newspapers (circulation 72,000,000) at least once. . . . On the radio side Public Relations efforts have gained something like 4,500 air minutes . . . more than three days . . . spread over 1,000 radio and television stations.

Credit Ted Wasielewski, a New York Policeman, with originating one of the finest junior shooting projects in the country . . . down on the lower East Side where delinquency spawns. . . . Likeable, hard-working Ted has the kids target-shooting crazy with his Wheeler Jr. Rifle Club . . . range, clubhouse, and all. . . . The Rifleman will cover it completely in a future issue. . . . Hand me the can opener, son. . . . I need a new rifle. . . . That could happen in the future U. S. Army which may soon get its small arms packed in steel barrel-like containers which eliminate the need for cosmoline protection. . . . Guns will be "cooked" to remove moisture, bathed in naphtha solvent and in a rust-preventive, sealed with silica gel to remove moisture from the air. . . . Army officials say the treatment will hold for fifty years unless the can is opened by the king-size version of your kitchen can opener.

National Muzzle Loading Rifle Association's national championships this year on the Association's Walter Cline range at Friendship, Indiana, had 389 shooters registered . . . not bad for a so-called specialized game. . . . Big winner was Lloyd Pender with 285 of a possible 300. . . . There is a postwar boom in every gun phase. . . . Lyman Gunsight Corporation recently shipped out more reloading equipment in one month than it did in any of the five years preceding the war. . . . A new way to train footballers. . . . Gilbert Johnson of Southern Methodist, regarded as one of the top clutch passers on the college grid in his sophomore year, spent his freshman time as a rifle-team ace. . . . Latest addition to NRA club rolls is the 91st Reconnaissance rifle and Pistol Club in Trinidad, British West Indies, listing 63 "soldiers" . . . and one "sailor". . . . Art Owens, former secretary of the San Gabriel Valley Gun Club, Monrovia, Calif., is now in China for a "three-year tour of duty" as a missionary and is serving as principal of a Shanghai high school.

Ray Stann

Many State Champions Crowned During Sept.; Stickley a Winner

Western States Second Annual Pistol Tournament, sponsored by the Los Angeles Police Revolver and Athletic Club of Los Angeles, California, was won by Emmett Jones with a total aggregate score of 2275 out of a possible 2400. D. Millican of Manhatten Beach, California finished second with 2270 while Horace J. Brown of Hollywood finished third with a 2266. The tournament was fired on September 18-19 with 101 competitors participating.

☆ ☆ ☆

Thirty-six competitors participated in the **First Annual Georgia-Carolina Pistol Tournament** which was fired at Augusta, Georgia on September 19. The top scorer was M/Sgt. Walter Fletcher, of Parris Island Marine Base. Fletcher fired a total aggregate score of 1819 out of a possible 1900. Walter L. Devine, another Parris Island marine, placed second with 1800. Walter Fletcher came within two points of the service record for the .22 Caliber National Match Course. The present record is held by Huelet Benner at 97.

☆ ☆ ☆

Pennsylvania State Pistol Matches were conducted at Harrisburg Hunters' and Anglers' Range on September 25-26 with a total of 188 competitors participating. Mert Golden, of Pittsburgh, high Pennsylvanian, won the State Championship, while Marine Corps shooters took the first three places in the Individual Aggregate. T. E. Barrier placed first, with 2007, Mark Billings second, with 000, and Walter Walsh third, with 1992.

☆ ☆ ☆

Third Annual Wynockie Valley Small Bore Championship Tournament was won by William Schweitzer on September 12 at Wanaque, New Jersey. Schweitzer fired an aggregate score of 1196 out of a possible 1200. rwin Tekulsky, N. Y., placed second by firing 1191 followed by Erik Olsson at 1189. Schweitzer shot a 398 with iron sights and 98 in the Any Sight matches. Ninety-nine competitors participated in the one day tournament. William Schweitzer took first place in all five of the individual matches. Fred Scielzo, a junior, of North Haledon, New Jersey, took high honors in his class winning three out of the four junior medals. Scielzo also won four marksman class medals for a day's total of seven.

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Richard Stickley, of South Bend, won the **First Annual State Pistol Championship** sponsored by the Indiana State Pistol Association at Bristol, Indiana on September 11-12. He scored 2454 out of a possible 2700 points. William Hubert of Toledo, Ohio was second with 2407 and H. G. Foster, of Indianapolis, third, with 2403. Richard Stickley fired 833 with the .22, 835 with the .38 and 786 with the .45.

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Interstate Small Bore Rifle Tournament sponsored by the Spokane Rifle Club of Spokane, Washington on September 5-6 was won by Gladys Rising, of Compton, California, with a score of 1569 out of a possible 1600 points. James A. Bell of Santa Monica, California, finished second with 1565 and Merrill E. Rising rounded out the first three.

Robert Gregory of La Porte, Indiana won the **Indiana State Small Bore Championship** on September 19 at the Michigan City, Indiana range. Gregory scored 1592-113x out of a possible 1600 points. Out-of-state Robert Fetterman was high scorer in the aggregate with 1593-106x, Gregory's score was second and Ernest Blocher third, with 1592-102x.

☆ ☆ ☆

Tenth Annual New Jersey State Pistol Championships, sponsored by the Association of New Jersey Rifle and Pistol Clubs was fired at South River on September 11-12. Walter Walsh won the Grand Aggregate with a 2002 out of a possible 2100. Phil Roettinger placed second with 1993. Walter Walsh fired 863 with the .22 caliber pistol, an 865 with the .38 followed by 274 with the .45.

☆ ☆ ☆

The out-of-staters moved in on the **Iowa State Rifle Tournament** on September 18-19 and took most of the top honors. Winner of the Iowa State Championship was Lew Mason, of Aurora, Illinois with a total score of 1592-99x followed in second place by R. O. Sinclaire, of Palm Beach, Florida with a score of 1589-97x. The high scoring Iowan was John Moschkau who turned in a score of 1588-100x.

☆ ☆ ☆

Second Annual Permian Basin Small Bore Rifle Tournament sponsored by the Permian Basin Rifle and Pistol Club, of Midland and Odessa, Texas, on September 5 and 6 was won by George Whittington, of Amarillo, with a score of 3131 out of a possible 3200 points. Ed Kell, of Atoka, Oklahoma, finished second with 3173, E. G. Pope of Lubbock, Texas, third, with 3163.

GALLERY RANGES

As your indoor shooting season approaches here are some hints for club officers, the executive officers and committees to think about in regards to their indoor range.

Check the general condition of the backstop and remove excessive lead. Make necessary repairs and adjustments to target carrier equipment. The use of carriers is an added safety feature and is recommended for ranges not already equipped with them. Names of companies supplying this equipment can be obtained from the NRA. Ranges having carriers can bring their range up-to-date by installing turning or facing targets as outlined on page 51 of the January, 1948 RIFLEMAN. This new development is important when firing timed or rapid fire matches. Carriers may also be equipped with double targets for checking crossfires. This feature is covered on page 58 of the February, 1948 issue. These articles include detailed drawings for making these improvements.

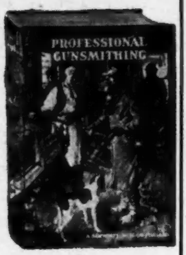
Too often indoor ranges are dark and dreary. Make them cheerful and a place where members or their guests enjoy spending an evening. A coat of gray paint will not only clean the place but also brighten it up and add an appealing atmosphere. Lighting is very important and should be checked annually. Do not use a dark firing line. Have the entire range lighted but use equipment that will not glare in the shooters' eyes. Get a light meter from the electric company or an electric supply store and check the intensity of light on each target. See that the amount is proper and equal on all targets.

Sound proofing the range will add materially to the enjoyment and welfare of shooters and guests at the range. It will also go a long way toward forestalling outside opposition from adjoining occupants who may not be in favor of the range. Good ventilation should not be overlooked. It is important to the health and comfort of occupants of the range and permits better light conditions by removing smoke and dust.

The Celotex Corporation, in collaboration with the National Rifle Association has published a complete booklet on indoor range construction. It covers 11 phases of an indoor range including drawings of a complete range layout. Copies may be obtained free by writing to the Celotex Corporation, 919 North Michigan Avenue, Chicago, Illinois.

Sgt. Glenn Van Buren (left), of the Carswell Air Base, Fort Worth, Tex., took the 1948 National All-Gauge Skeet Championship at Las Vegas, Nevada, in September after a little over a year's experience in breaking birds. He is shown here being presented with his trophy by Andy Devine (center), of Hollywood, while Fred Missildine, runner-up of Sea Island, Ga., looks on

PROFESSIONAL GUNSMITHING—Howe



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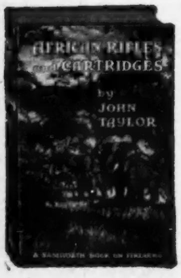

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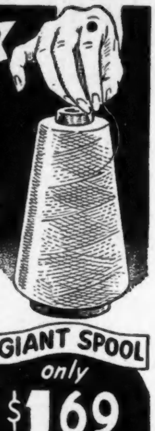

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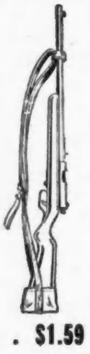

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Clubs and COMPETITORS

Some figures on competitive shooting. . . . In 1940 the NRA had less than 3500 rifle and pistol competitors carrying National Classification Cards. Today there are over 18,000 Control Cards in the NRA files, each card representing a classified shooter. During the first eight months of this year 4980 new classifications were issued and 1700 other shooters were reclassified upward because of improved scores. Registered tournaments have taken a tremendous jump in one year—369 fired in all of 1947 versus 467 for the first eight months of the present year. '47 was a record year, too.

☆ ☆ ☆

The careless and thoughtless practice of aiming rifles at the targets while the target detail is forward of the firing line is becoming quite prevalent at smallbore tournaments. Tournaments sponsors and official referees should make all efforts to stop the practice immediately as it is not only dangerous but a discourteous breach of good gun manners.

☆ ☆ ☆

The Southern California Junior Rifle League's regularly scheduled tournaments for young shooters are growing in popularity. The September 25th shoot found a hundred young sharpshooters vying for honors with many more young Los Angeles marksmen set to join them, at the next meet, on the 20th of this month. . . . The first annual three-day camp rifle period sponsored by the Milwaukee Sentinel and conducted by the Wisconsin Rifle Association proved a great success. Forty young campers kept instructors busy on the Camp Anokiji range from 8 A.M. until dark. In addition to the shooting instruction the youngsters had access to all the camp's other facilities including swimming, boating, fishing, horseback riding, archery and handicraft.

☆ ☆ ☆

The Associated Gun Clubs of Baltimore, Inc., is a good example of what a few small clubs can do when they band together. A movement for cooperation among the rifle clubs of the Baltimore, Md. area started in 1944. None of the small clubs had adequate range facilities of their own and recognized that the provision of such facilities was too big a job for any one club. They banded together and today the association's Patapsco Range on the north branch of the Patapsco River is one of the finest in the east. They have a 200-yard ten-point .30 caliber range, a 125-point .22 caliber range at 50 and 100 yards and — not yet completed — a 50-point pistol range for 25 and 50 yards. They are also reserving a large triangular plot for a club house, tennis, croquet and badminton courts, a swimming pool and parking space.

☆ ☆ ☆

One of the better club publications is "The Bugle," published once a week by the North Stamford Rifle Club, of Stamford, Connecticut. Started in 1940 with 19 charter members the Nutmeg State Club now has more than 60. The club members consider "The Bugle" one of the major factors that keeps the club healthy and active. Crammed with all types of shooting news it gives special attention to the shooting improvement made by individual club members as they gain shooting experience.

GUN PROBLEM SOLVED

E. L. Richardson, Instructor of Troop 12 BSA Junior Rifle Club, of Denver, Colorado, has recently come up with a solution for the problem of police interference with members of junior rifle clubs engaging in their sport. The Police Department was confiscating all air guns when found in any boy's possession within Denver's city limits.

To avoid any confusion Richardson visited the Manager of Safety and Excise and got him to issue cards, signed by himself, to all members of the Troop 12 Junior Rifle Club, giving them permission to carry their guns to and from the range. The card also contained a warning that the gun could still be confiscated if all the saftey precautions were not being maintained.

The direct approach to the carrying problem solved the situation in Denver and might be used by instructors in other localities facing the same conditions.

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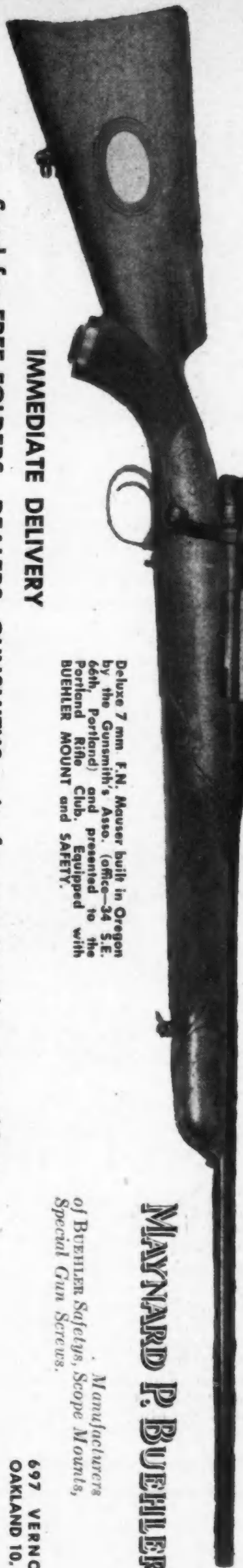

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EXECUTIVE COMMITTEE ACTION

Charges against Charles Masterson of Dallas, Texas were heard by the NRA Executive Committee during its meeting October 2, 1948. These charges were to the effect that Masterson fired a pistol in an unauthorized manner at the range of an NRA Registered Tournament. In his reply to the charges Masterson admitted doing so. Action taken on the charges was to suspend Masterson from all NRA membership benefits (except subscription to THE AMERICAN RIFLEMAN) until January 1, 1949. Masterson was exonerated of the charge that he was intoxicated when he fired his pistol in the unauthorized manner.

JOSEPH ANDERSON

Joseph Anderson, of Louisville, Ky., recently died an accidental death. Anderson was a civilian pistol shooter of note and one of the leaders in the formation of the strong Louisville Pistol Club.

FRANCIS E. CHASE

Francis E. Chase, 71, who was pictured on the Januay cover of THE AMERICAN RIFLEMAN, died recently of a heart attack. Mr. Chase, a Spanish-American war veteran and 32nd degree Mason, was a well-known figure in Eastern shooting circles for his work among the junior riflemen of this country.

GEORGE G. COOPER

George G. Cooper, 60, of Des Moines, Iowa, well-known Midwestern rifleman, died recently of a heart attack. Extremely active in the target shooting game, Cooper was a past director of the NRA, and president of the Iowa State Rifle Association. He was a familiar figure at the pre-war Camp Perry meets and was captain of the International Dewar team which set the highscoring record for the international matches.

THE RANGER PROGRAM

Last year the Sporting Arms and Ammunition Manufacturers' Institute inaugurated the RANGER PROGRAM, based on a fifty foot qualification course specially set up on a target prepared for that course alone. This target has three scoring rings consisting of a "Ten" ring measuring a little over one inch, a "Five" ring measuring slightly over two and one-half inches and a "Three" ring which measures approximately four and one-quarter inches in diameter. To become a "RANGER" it is necessary to fire ten rounds at each of four targets and have each target scoring a minimum of seventy points.

The main purpose of this program is not the qualification nor the sale of the Ranger Brassard after qualification is accomplished, but to place in the hands of the young shooters of America pamphlets that will show them the proper methods of safe firearms handling and steer them toward organized shooting activities under the sponsorship of able leaders. This, in turn, will definitely help to keep down the number of unfortunate gun accidents caused by youngsters not firing under supervision.

If you are interested in the RANGER PROGRAM write to the Sporting Arms and Ammunition Institute, 343 Lexington Avenue, New York 16, N. Y., for complete information and targets.

COMING EVENTS

Regional Championship Tournaments (Class A) and State or Division Championships (Class B) only are listed below. All other N.R.A. Registered Tournaments are listed in a printed schedule that will be sent to any shooter upon request. Send your request by letter or penny postcard to the National Rifle Association, Competitions Section, 1600 Rhode Island Avenue, N. W., Washington 6, D. C.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by Ltd.).

(*) Tournaments marked in this manner are Gallery Tournaments that are scheduled prior to the time the Gallery Registered Tournament Schedule will be available for distribution.

Always write to the tournament sponsor for a program in advance of any Registered Tournament you plan to attend. It is your assurance that you will know all of the details and the tournament conditions.

CALIFORNIA

November 13-14 (B)—California State Pistol Championship, Calexico. Margaret Poindexter, 146 South 4th Street, El Centro. **(Adv.-Ltd.)**

November 13-14 (B)—Pacific States Fall Round-up Small Bore Championship, Monterey Park. Gladys Rising, 600 North Mayo Ave., Compton.

DELAWARE

(*) November 21 (C)—Fall Gallery Pistol Tournament, Wilmington. J. F. Christoff, 500 Brentwood Drive.

HAWAII

December 3-4-5 (B)—Mid-Pacific Pistol Tournament, Hilo. Sgt. Maj. 299th Regimental Combat Team, National Guard Armory, Hilo.

IOWA

December 4-5 (C)—Second Annual Fall 50 Yd. & 50 Meter Indoor Rifle, Des Moines. Des Moines Rifle and Pistol Club, Box 1395.

LOUISIANA

November 6-7 (B)—Louisiana State Pistol Tournament, Shreveport. J. H. Elournoy, 199 Preston Street.

MICHIGAN

(*) December 11 (C)—Gallery Rifle Tournament, Kalamazoo. Thomas Peacock, 427 Parker Ave.

NEW JERSEY

(*) November 6-7 (C)—North Jersey Gallery Rifle Championship, Paterson. R. A. Harris, 60 Manor Road, North Haledon, Paterson.

(*) November 19-20 (C)—Second Annual Big Oak Gallery Rifle Championship, Millville. Merrill S. Cottrell, 902 Buck Street.

(*) November 27-28 (C)—First Annual Gallery Rifle, Union City. Donald E. Ross, 65 Merrison St., Teaneck.

NEW YORK

(*) December 3-4-5 (C)—Antlers Gallery Rifle Tournament, Elmhurst. F. W. Von Sholly, Room 518, Keith's Theatre Bldg., Flushing.

(*) December 11-12 (C)—Metropolitan Winter Gallery Rifle Tournament, New York City. Dr. Irwin Tekulsky, 168 West 86th Street.

OREGON

(*) November 7 (C)—First Annual Gallery Rifle, McMinnville. Arthur F. Fisher, 328 College Avenue.

WASHINGTON

(*) December 4 (C)—Fidalgo Island Gallery Rifle, Anacortes. Mrs. Louis Corbin, Anacortes.

WISCONSIN

December 12 (B)—Fourth Annual Wisconsin State Gallery Rifle Championship, Milwaukee. Dexter Rhodes, 3828 West Sheridan Drive.

STOLEN GUNS

One 219 Wasp, Mauser action. Target stock and barrel, Lyman super target spot scope. No serial number. Ferris Pindell, 113 North 11th St., Richmond, Indiana.

One M1917 Remington Infield Rifle, serial number 112304, Sporter stock, single pull trigger, modified magazine. Andrew Benassi, 1957 Park Lane, Jennings 21, Missouri.

One Highstandard Pistol #12187. Harry Obert, Box 86, Red Lodge, Montana.

One 12 gauge Remington Automatic shotgun, serial number 56661. S. C. Gregory, 47 5th St., Ashland, Oregon.

JOHN, YOU'VE PRACTICED ENOUGH FOR TONIGHT.-
I KNOW, MARY, BUT I WANT TO BE SURE OF WINNING A BLACKINTON MEDAL IN THE STATE OPEN.

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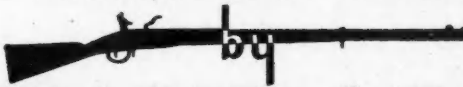

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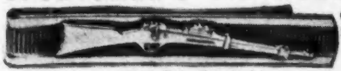

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A PAPER FOR PEOPLE WHO SHOOT

Rifle Re

VOL. 11, NO. 10

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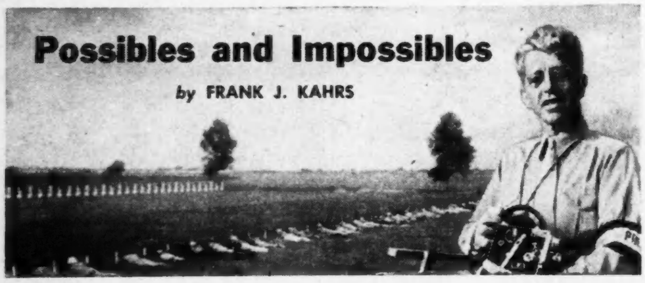


Possibles and Impossibles

by FRANK J. KAHRS

It is not going to be a very pleasant job for me to write the column this month because it is the last column I shall write. You see I am retiring from Remington service as of December 1st after 33 years. Prior to that I have served 17 years with "Shooting and Fishing" and "Arms and the Man" thus rounding out 50 years of continuous service without a break.

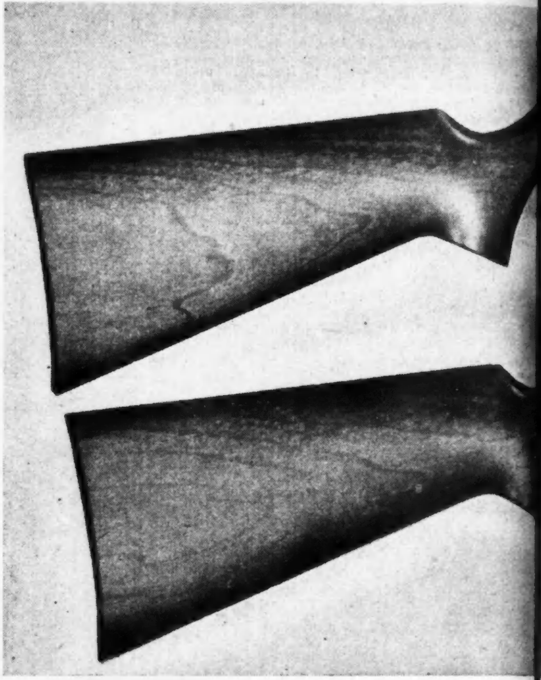
Frankly, I consider this quite a record in itself. This brings me to the point in my story where I must explain that I am also rounding out 50 years in the shooting game because I started at the tender age of 15—by this time you must have guessed that I am 65, which is a fact, because my 65th birthday is November 14, and by the rules of Remington you are rewarded by retirement so you may enjoy a well earned rest. As far as I am concerned that suits me to a "T," because I have a lot of fishing to catch up with, some hunting, a game or two of golf occasionally, a little sightseeing around the country because there are some places and some friends I have been promising to visit for oh—so long, especially a couple of guys in Phoenix, Arizona, a few friends in the San Fernando valley and Santa Monica, California. A grand guy over in Bozeman, Montana, in the summer; Tucson, Arizona, in the winter, and there are a lot of friends around the country I shall drop in on after I obtain my freedom.

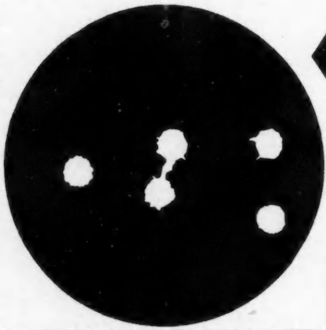
I consider it only fair and proper to say that the 33 years with Remington have been the most interesting and happiest in my life. I have traveled much to many Shoots here and abroad; I have seen many shooting records made and re-made. I have had a small part in the promotion of rifle shooting and I have seen the sport grow from practically nothing to where it has reached the proportion which will enable you to find a rifle range almost any place.

Fifty years! They mean nothing at all. They passed so swiftly. I can hardly believe that I have crossed the bridge. If I had it to do all over again I think I would like to follow the same lines. Those first 17 years gave me a basic approach because I lived with "Shooting and Fishing" and "Arms and the Man." Those were the contact days—later the actual contacts with the shooters themselves. It is an experience that comes to few, and besides there are the recollections and the memories of friends in the shooting fraternity.

The other day I went down to New York to meet the Washington, that fine big American transatlantic liner which brought back from the Olympics a lot of athletes who had competed in the games and two American shooters, both of whom had attained high honors; one having won the Olympic championship and the other the British championship. As most of you people know, the winner of the Olympics was a youngster of 20 years. I couldn't help but think of my own early days of shooting when I was this lad's age, and therefore I could understand how he felt in the flush of his first triumph. He had won the highest honor that could come to any shooter. I thought of the magnificent thing it was for the shooting game to send over such a truly representative youth as this boy is, and have him come home the winner. I wish you could have been with me when he showed me in all modesty the beautiful gold medallion that every winner of first place in a major event receives at the Olympics. I felt a great surge of pride go through me when I realized that this youth was deeply conscious of the great honor he had brought back to this country, and was almost humble when he showed me the prize.

No, this has no special significance in my retirement only that it is another milestone in the many interesting things that have occurred in my shooting life. So, with this little interesting story I must take my leave which I do most reluctantly. I do want to wish you all good health, a long and happy life and—good shooting.





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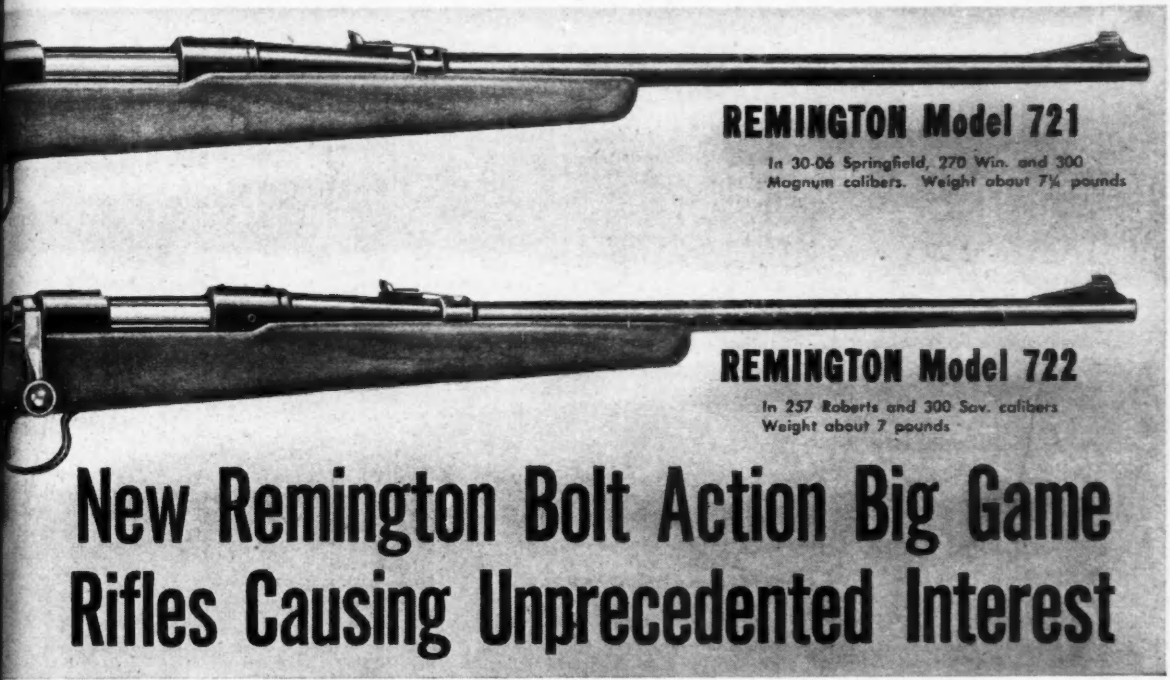

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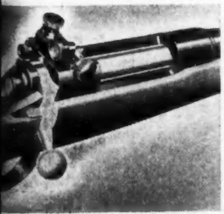

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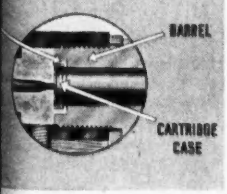

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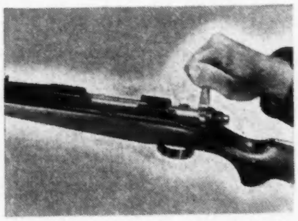

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Edwards Brown, Jr. A. H. Barr J. S. Rose M. D. Waite

Loads for Kilbourn Cartridges • Bluing Salts • Remodeled G33/40 • Sierra .22 Caliber Bullets • .22 Bullet Jacket Material • Davidson Mark 245 Scope • New Freeland Scope Stand • New R.C.B.S. Dies • Another Quick Detachable Mount • Rugged Decapping Pin • New Products • Trade Dope • Book Reviews.

LOADS FOR KILBOURN CARTRIDGES

The following loading information is for some of the popular wildcat Kilbourn cartridges. The data may be used as a guide only when reloading for other cartridges such as the large-capacity Lovell, Improved Zipper, and Improved Swift. Specific loads cannot be listed for every make of the so-called improved versions of these cartridges. Common sense and more experimenting is a prime requirement when working up loads for any cartridge, especially the wildcats.

The following loads have been chronographed and in certain rifles they have proven O.K., but may in some cases be of maximum nature. This is true especially for No. 4895 loads where the exact charge may vary considerably with each lot of powder. Be *cautious* and be on the *safe* side! These particular cartridges were designed by Lyle D. Kilbourn, Whitesboro, N. Y.

Bullet	*Powder*	*Velocity*
	.22 K-Lovell	
45-gr. Morse 8-S	15.5 grs. #4227	3360 f.s. vel.
" " "	16.5 " "	3454 " "
50-gr. Sisk	17.0 " #4198	3006 " "
" Morse 8-S	17.0 " "	3074 " "
" Sisk	18.0 " "	3254 " "
	.22 K-Zipper	
55-gr. Morse 8-S	31.0 grs. #4895	3600 f.s. vel.
" " "	32.0 "	3700 " "
" " "	33.0 "	3840 " "
" " "	31.0 #4320	3600 " "
" " "	33.0 "	3820 " "
54-gr. Sisk	30.0 #3031	3562 " "
" "	32.0 "	3795 " "
50-gr. Morse 8-S	32.0 "	3970 " "
" " "	33.0 "	4083 " "
45-gr. " "	33.5 "	4304 " "
	.220 K-Swift	
54-gr. Sisk	39.0 grs. #4064	3780 f.s. vel.
55-gr. Morse 8-S	41.0 "	4045 " "
" " "	38.0 #4895	3825 " "
" " "	40.0 "	4000 " "
50-gr. " "	38.0 "	3996 " "
" " "	42.0 "	4335 " "
" " "	40.0 #4320	3990 " "
" " "	41.0 "	4150 " "

We will not guarantee the maximum loads to be safe in all rifles. The chronograph tests were made by Lyle D. Kilbourn and the late J. B. Smith in May 1948, and are considered reliable.—A. H. B.

BLUING SALTS

R. C. Pope, Box 903, Dallas, Texas, has his own formula for immersion process bluing. The salts in appearance are similar to many others on the market and the bluing process is much the same too. We do find Pope's salts have wider range in bluing temperature, the chemicals working much like the old lye and nitrate formula in this respect. The range is from 285 degrees to 320 degrees to even 330 degrees F. Certain types of steel will blue at the lower temperature, resulting in a thin dark blue rather than a deep black finish. Boiling longer, to evaporate some of the water, causes the temperature of the solution to rise, resulting in a deep blue-black finish. The actual bluing temperature with these salts does not seem to be too critical and we have done several good bluing jobs.

As only three pints of water is added to each five pounds of salts for the 285 degree starting point, at least eight to ten pounds of chemicals are needed for a small tank 16 inches long, 5 inches wide, and 8 inches deep.

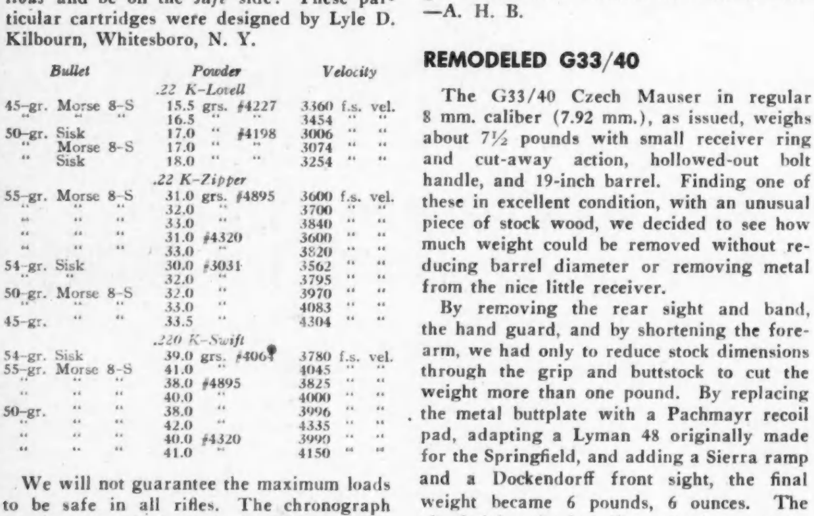
For those who prefer the hot water swab-on blue, Mr. Pope makes a chemically correct gun blue which we have not used to date. —A. H. B.

REMODELED G33/40

The G33/40 Czech Mauser in regular 8 mm. caliber (7.92 mm.), as issued, weighs about 7½ pounds with small receiver ring and cut-away action, hollowed-out bolt handle, and 19-inch barrel. Finding one of these in excellent condition, with an unusual piece of stock wood, we decided to see how much weight could be removed without reducing barrel diameter or removing metal from the nice little receiver.

By removing the rear sight and band, the hand guard, and by shortening the forearm, we had only to reduce stock dimensions through the grip and buttstock to cut the weight more than one pound. By replacing the metal buttplate with a Pachmayr recoil pad, adapting a Lyman 48 originally made for the Springfield, and adding a Sierra ramp and a Dockendorff front sight, the final weight became 6 pounds, 6 ounces. The plastic inlays in the military stock are merely to cover holes already in it. The three near the butt are to balance the fill-ins on left side to cover the screw holes for the metal protective shield extending forward of the buttplate.

At 100 yards this light rifle, with iron sights, will group in 2½ inches or less with full loads. It has made 5-shot 1-inch groups with gas-check bullets.—A. H. B.



Czech G33/40 Mauser, as issued (below), with new sights and cut-away stock, makes a nice sporter

SIERRA .22 CALIBER BULLETS

The Harris Machine Co., 312 E. Bermudez, Rivera, Calif., has sent us samples of many items for shooters. Sierra barrel ramps are attractive and they have been used to very good advantage. Their gas checks and .22 caliber bullet-jacket material has also produced good results. Their latest products received and tried are the Sierra .22 caliber bullets in 45-, 50-, and 55-grain weights. These are very uniform in appearance, with a reasonable amount of lead point exposed. Like most all makes of bullets, they perform extremely well in some rifles and only average in others. Everyone will have to try them to know just how they will do in individual rifles.

In one of our rifles we tried four different loads and had three groups of less than ¾ inch at 100 yards, indicating these bullets in some rifles will at least give very uniform results. The absence of fliers would definitely indicate quite uniform construction of the bullets. The bases are flat with slightly rounded edges, a factor which frequently contributes to good accuracy. These bullets will apparently stand quite high velocity, as they perform very well in .22-250 caliber.—A. H. B.

.22 BULLET JACKET MATERIAL

With many bullet-making dies in use, there is naturally much interest in the material used to make bullets. We have previously given in these columns several sources for good lead wire. Now we can report excellent results using copper-alloy jacket material made by Ernest L. Gardiner, 422 South Sixth St., Rockford, Ill.

The materials are made in various lengths, from .575- to .705- and even .735-inch. We have jackets made of 90 percent copper and ten percent zinc, but they have not been used much yet. We can report very favorably on the 95 percent copper and five percent zinc. In .705-inch length, when formed in new R.C.B.S. dies, this material has produced some of the most accurate bullets made to date in .22 caliber. Firing 55-grain bullets with these jackets in one rifle, we got regular 1- to 1¼-inch 5 shot groups at 200 yards in a .22-250 with Pfeifer barrel. We could not expect them to perform the same in all .22 rifles, as what works in one rifle does not always perform equally well in another even in the same caliber.

This jacket material must be good to give the kind of performance we are now getting. We have not had a single flier after using at least a hundred of the jackets. The jackets are cupped and drawn from strip coil copper alloy, using a punch press and specially made drawing presses. They are then trimmed to the correct length.

We will be able to give results of tests with the 90-10 alloy jacket material as soon as we get a supply of it.—A. H. B.

DAVIDSON MARK 245 SCOPE

During the last few weeks we have been using the Mark 245 spotting scope made by the Davidson Manufacturing Company, 5142 Alhambra Avenue, Los Angeles 32, California. Optically, the scope is excellent. The eyepiece comes out at a 45-degree angle and spotting has been found very convenient with either right or left hand placement of the scope. Resolution is good to the edge of the field and, with the 63 mm. objective and coated lenses, the image is brightly illuminated. The field, however, is not as wide as other scopes of equal power, which indicates that the edge of the field may be cut down with aperture stops. Field of view figures in feet at 100 yards for the various eyepieces are as follows: ten power—11 feet, 9 inches; twenty power—8 feet, 9 inches; thirty power—6 feet, 4½ inches; forty power—4 feet, 6 inches.

At first we raised some objection to the coating job upon finding that the coating on the inner surface of the objective lens could be rubbed off with about three rubs of a pencil eraser. Davidson Company has given a very logical explanation of this. On the inner glass surfaces they claim to have used a soft coating which is more efficient than the hard coating, while on the exposed surfaces a special hard coating has been used which is less efficient but extremely tough. They feel that the net result is to the user's advantage as long as he doesn't take the scope apart.

The eyepiece on the scope is somewhat vulnerable if the scope is dropped, since the eyepiece cap is made of neoprene instead of metal. The weight of the scope is heavy (3 pounds, 6 ounces with the three extra eyepieces). Also it is too long for a number of pistol kits, being 16 inches in length.

Focusing is accomplished by turning a large ring extending around the tube. The three extra eyepieces, if you buy them with the scope, turn into the inside of the objective cap.

The power of the various eyepieces, in the scope we tested, checked very closely to specifications. List price of it with one eyepiece is $84.50. Extra eyepieces are $15.00 each.—E. B.

NEW FREELAND SCOPE STAND

Al Freeland, of 3737—14th Avenue, Rock Island, Illinois, has developed another scope stand of the two-legged variety. The base of this one is similar to the K-T stand, with the addition of two thumb lock nuts where the legs are joined and sharp points under the main stem as well as at the ends of the legs. The points assist in keeping the base firmly planted while making the tipping adjustment of the scope. An excellent friction head, which appears to be carefully machined, can be adjusted to give any desired resistance to scope tipping. It can be adjusted so that movement is smooth and easy yet firm enough to hold the scope in place. Movement in azimuth is also made against a smooth friction fit. The total weight of the stand, without scope, is approximately 4½ pounds.—E. B.

CORRECTION

Since making the initial tests on the Ballantyne Spotting Scope we have discovered that the scope cannot be focused properly at 50 feet without screwing the objective lens part way out (about ⅛ inch). Ballantyne will furnish, free, a spacer to be inserted when the scope is used at 50 feet.

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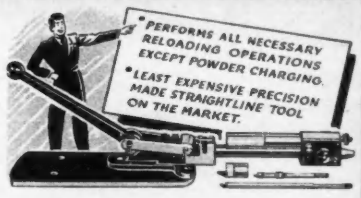
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NEW R.C.B.S. DIES

A recent change in the manufacture of R.C.B.S. bullet-making dies has enabled the Rock Chuck Bullet Swage Company to mass produce the dies with no loss in accuracy of bullets made with them. In fact, one set of the dies is producing the most accurate bullets we have used. In less than a week after receiving our set of dies we were making bullets, in .22 caliber, which gave ½ minute of accuracy in two different rifles. In a Pfeifer barreled .22-250, I made two consecutive groups of .94 inch and 1.12 inch with 4 hits in .84 inch at 200 yards using 34.5 grains of No. 3031 powder and Winchester No. 115 primers. Ten shots of the same load grouped in 1.61 inches, with 7 in .92 inch at 200 yards under match conditions. The bullets, weighing 55 grains, were made from Gardiner jacket material.

In an M2 Mashburn, bullets of the same weight but having special heavy jackets furnished by the R.C.B.S. Co., grouped 5 shots in 7/16 inch at 100 yards. The load was 39.0 grains of No. 4895 powder. The same load went into 1½ inches at 200 yards.

We are still getting excellent accuracy from our .25 Magnum rifles with bullets made in a set of the old style R.C.B.S. dies. No bullets have come close to equalling the accuracy of these bullets in the Magnums, except some of new design by C. G. Moffat, P.O. Box 701, Susanville, Calif. By request he has designed an excellent two-diameter bullet having a pencil point. The groove diameter section is approximately ¼-inch long with a ⅜-inch bore riding section. They shoot well in all rifles. The bullets were designed to expand well on game yet have a rather heavy base section. They have given two consecutive 200-yard groups of 1⅜ inches in a .25 Short Barr Magnum by Ackley. The load was 49.0 grains of No. 4895 with the 100-grain Moffat bullet. These bullets also perform very well in our .25-'06 Ackley using 56.0 grains of No. 4350 powder. The loads might be on the heavy side in some rifles of the same caliber.—A. H. B.

ANOTHER QUICK DETACHABLE MOUNT

There are hunting scope mounts and more mounts, yet each has its individual characteristics. The one made by Clarence Kesselring, Route 2, Sedro Wooley, Washington, is somewhat different.

Inner ends of screws through the front and rear mountings enter small holes drilled in the side of the bridge and receiver ring, thus locating the scope on the rifle. On the left side is a locking cam lever. The locking unit, which rides on a spring steel wire, slips over a small screw projecting from the side of the receiver. When the cam lever is turned to rear, it is in locked position and holds the scope securely to the receiver.

Very few top mounts with the scope removed leave the receiver clear for the use of iron sights, but this one does. The rear ring on the Kesselring should be moved forward so the base of a Lyman or some other receiver sight can be left on the rifle. This would result in a neat quick-change outfit.

As for performance, this one goes back to zero positively every time it is removed and put back on. We used it enough to be sure of that point by removing and replacing the scope for every shot in 10-shot groups. The groups were always as small or by chance smaller than when not removing the scope and there was no change in zero.—A. H. B.

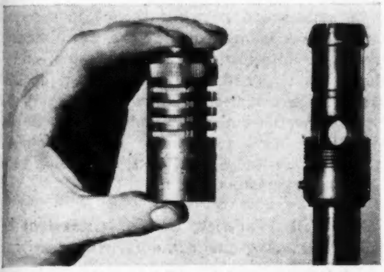
NEW PRODUCTS

Barrels, commercial tapered, octagon, hexagon, or octagon full-ribbed, chambered in any standard caliber, are being sold by Sill and Sill, 2248 82nd Street, Brooklyn 14, New York. The barrels come in lengths from 18 to 26 inches with four or six grooves. Sill and Sill write that the barrels are double heat-treated carbon manganese or chrome alloy steel.

☆ ☆ ☆

Two choke compensators have appeared on the market since working on the data and pictures for the article "Shotgun Compensators," in the RIFLEMAN, October 1948.

One, the Paternator, is sold by the Ljutic Gun Company, Route 2, Box 519, Clovis, California. It can be had with interchangeable full, modified, and skeet tubes. The constriction comes at the muzzle end of the device after the shot has past the compensator openings. These openings consist of four holes, diametrically opposed. Retail price is $18.50, plus $5.00 installation charge.



Shooting Master (left) and Paternator (right)

The other device is the Shooting Master, produced by the Shooting Master Corporation of Gardner, Massachusetts. Basically it is very much like the Poly-Choke in that the choke is varied by turning a sleeve on the muzzle of the gun. It differs from the ventilated Poly-Choke in that the choke constriction is at the muzzle end of the device while in the ventilated Poly-Choke the charge is choked before the shot enters the sleeve. The Shooting Master, installed, costs $13.50.

☆ ☆ ☆

Lyman Challenger 4X scope appears to be excellent optically. With exception of the location of the ocular lens, which is in a vulnerable position, the scope looks rugged. The exposed surface of the ocular lens is nearly flush with the mounting, where it might be banged or scratched easily. In a scope with optimum eye relief of 3¼ inches, there seems to be little need for this. The caps on the elevation and windage adjustment turrets stick up about ½ inch above the 26 mm. tube diameter, detracting from the otherwise streamlined appearance of the scope.

Lyman recommends the use of split ring mounts so that it will not be necessary to take the scope apart for mounting.

Factory statistics for the Challenger are:

Magnification	4X
Field of view at 100 yards approximately	30 feet
Eye distance . . 3 to 5 inches	(optimum 3¼)
Tube diameter	26 mm.
Weight	13 ounces
Length	11¼ inches

This scope has not been given a thorough testing yet, since it was received just prior to press time.

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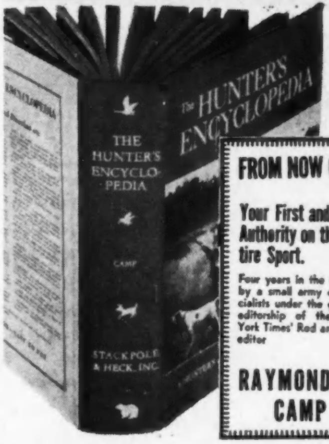

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Dem-Bart Company factory has moved from San Pedro, Calif., to Tacoma, Washington (P. O. Box 700), where the office has been located. The move will enable customers to get better and more prompt service. Dem-Bart produces excellent checkering tools, including a speedy electric checkerer on which many favorable reports have been received.

☆ ☆ ☆

.401 Winchester ammunition, which has been suspended from manufacture temporarily, is back on the market. At least one firm, Remington Arms Company, has been making shipments of it.

☆ ☆ ☆

Thomas Gun Shop, Route 2, Sandpoint, Idaho, has an improved plastic stock finish. The material is used as a grain filler and to give a final finish which is water repellent. The stock wood is not darkened materially, at least not enough to hide the grain figure. By following instructions, a durable, simulated hand-rubbed, oil-type finishing job can be done in a matter of days rather than the weeks required for the genuine oil finish. We have used the plastic stock finish on three different walnut stocks, obtaining very satisfactory results.

☆ ☆ ☆

Roy Vail, Warwick, N. Y., writes that he has been using magazine floorplate release buttons similar to those described in the Dope Bag, August, for the past twenty years. He applied for a patent on them around 1944. He sent samples for the Mauser, which are easily fitted by enlarging the hole already in the floorplate with a 5/16-inch end mill. The buttons are supplied to the trade at $9.00 per dozen.

☆ ☆ ☆

Crowe's new rotary safety for the Model 12 Winchester shotgun replaces the cross-bolt safety with a lever style. It is easily installed by the purchaser, fast and handy in operation.

☆ ☆ ☆

C. R. Pedersen & Son, Ludington, Michigan, manufactures a rather simple side safety to fit Mauser rifles. The safety is easy to install. It is anchored to the receiver tang by a special screw furnished for the purpose. Then, on most guns, the only alteration necessary is grinding a small amount from the sear so it will clear the locking cam of the safety. The trigger and sear, but not the firing pin, are locked against accidental discharge. One of these safeties performed O. K. when we fitted it to a Mauser.

☆ ☆ ☆

Hensley & Gibbs, 2692 E St., San Diego, Calif., produce fine bullet molds. Like a number of other bullet mold makers, they willingly make molds for individuals who want to cast bullets of special design. Their molds are usually not difficult to break in, especially when following directions furnished by Hensley & Gibbs. Of the many special bullet designs for which molds are made, one of the latest is the so-called 'Reeves' No. 118, made for the .45 A.C.P. The bullet is a semi-wadcutter, but having a round-nose section forward of the sharp wadcutter shoulder. The standard 2-groove bullet weighs 215 grains. A variation, the short base band version, of the same bullet weighs about 190 grains.

BOOK REVIEWS

BOOK OF THE GARAND

By Major General Julian S. Hatcher, Rtd.

Here is the story of the Garand from the conception of the rifle to its latest developments. There is no other book like it because only General Hatcher could have written it. Not only is he a keen student of firearms, but he has the gift, rare among authors, to draw the essentials of the picture—to make the reader see what he sees.

Throughout the evolution of the Garand rifle, Hatcher was a friend and advisor of the inventor and his associates. He has been on testing boards throughout the development of the rifle, and when he was on a board he took notes. In writing this book he has dug out the notes and reconstructed the meetings and the tests of the Garand. He has also included the words of wisdom from other authors who have dealt with only one phase of the Garand rifle.

If you are a military expert, if you are a match rifleman, if you are a gunsmith, or if you are just a hunter or gun lover, you will enjoy this book. If you will study it closely, you will be an expert on semiautomatic rifles and will be able to talk and argue in any company about the leading infantry weapon of our country.—Lt. Col. Eugene S. Hicker, Infantry, U.S.A.

(Published by Infantry Journal Press, Harrisburg, Penna. 292 pages, illustrated. Price, $6.00. Available through NRA Book Service.)

AFRICAN RIFLES AND CARTRIDGES

By John Taylor

Don't let the title frighten you. Here is a delightful book on just *that* subject, but one in which the author has used exciting stories to illustrate his essential points.

John Taylor is not a seasonal hunter, but one who has had eleven months a year for thirty years in the field and has bagged over 1500 elephants as well as every other known game on the African continent.

Interwoven into the technical chapters on various bores are the exciting experiences which lift the book out of the 'dry text' class. The result is a novel-like quality. Only a man with Taylor's long experience could possibly have been involved in so many exciting situations. He describes his mistakes as well as successes, and foremost he stresses safety.

While the volume contains valuable statistical tables of muzzle velocity, bullet weight, presures, and so forth, the author sometimes finds it necessary to pit the tables against experience and proceeds to prove his point by digging out the lead to show just what has happened to it and its victim.

Taylor exhibits a vast knowledge of a great many rifles, but freely admits there are a few with which he is unfamiliar. He is a little rough on the Mauser (Springfield) action as well as other magazine rifles, and places the .30-'06 in the same category that we do the BB gun. All this rightly so, for it's Africa he's writing about, and there the 'double' is king.

Here is a book that for years to come you can pull off the shelf and find enjoyment in its exciting pages—and, praise Allah, it's indexed.—George Crossette.

(Published by Small Arms Technical Publishing Company, Georgetown, S. C. 431

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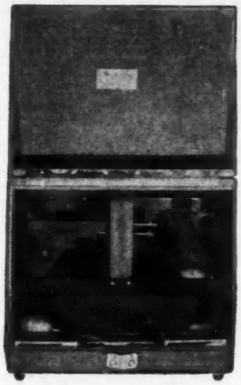

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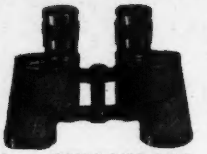

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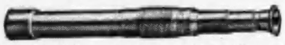

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HOW TO SHOOT A RIFLE

By NRA Staff

This 62-page NRA-produced booklet is profusely and clearly illustrated throughout. The first twelve pages consist of introduction and some convincing argument that rifle shooting is the finest sport for the participant, which is one of the principle reasons for its continually increasing popularity. Excepting the glossary in the back of the booklet, the remaining three-quarters is devoted to the clear and concise basic training of a rifleman. It really consists of putting on paper the same basic course which was used so effectively by personal instruction during the last war in teaching men how to understand, handle, and shoot a rifle.

The producers make their intentions clear in the last paragraph of the foreword: "*How to Shoot a Rifle* . . . is really a combination textbook for the student and handbook for the instructor." As a handbook for the instructor, it is excellent. In the hands of an experienced (but not necessarily expert instructor) this book is an outline for the proven basic course mentioned above. However, as a textbook for the beginner, it would seem to be a big step in the right direction, yet falling short of sufficient text matter to substitute for even a small amount of personal instruction. It was the impression of this reviewer that the price of $1.75 was too high, even though we recognized the comparatively high cost of producing such a booklet.—FRANK PARSONS, JR.

(Published by the National Rifle Association of America. 62 pages, illustrated. Price, $1.75. Available through NRA Book Service.)

THE BOY'S BOOK OF RIFLES

By Charles Edward Chapel

Author Chapel needs no introduction to NRA members. His earlier books, *Gun Collecting, Gun Care and Repair*, and *The Gun Collector's Handbook of Values* have received fairly wide distribution. This book enters a different field. It is written especially for boys (and girls, we presume) from 12 to 19 years of age, and their parents.

Actually *The Boy's Book of Rifles* is a compilation of information which up till now has been available only by securing a dozen or so publications. The author has drawn heavily from the NRA's "Junior Instructor's Manual" and "Junior Rifle Handbook," from the Boy Scout's "Marksmanship" merit badge pamphlet, the Sporting Arms and Ammunition Manufacturers' "Handbook of Small-Bore Rifle Shooting" and the works of other writers in the .22 caliber rifle shooting field. Consequently a wealth of concrete information for the young shooter has been gathered together between the covers of this one book.

If puzzled over a suitable birthday or Christmas gift for some aspiring junior rifleman in your family, or for a young friend, consider this book. Junior rifle club instructors should also include a copy in the club library.—C. R. R.

(Published by Coward-McCann, Inc., 274 pages, illustrated and indexed. Price $3.50. Orders from NRA chartered rifle clubs placed direct with the publishers at 2 West 45th Street, New York City 19, will be extended discounts of 33⅓ percent for single copies, 36 percent for two copies, 40 percent for three copies.)

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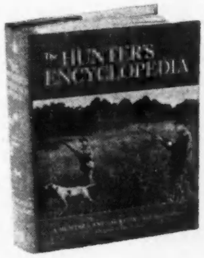

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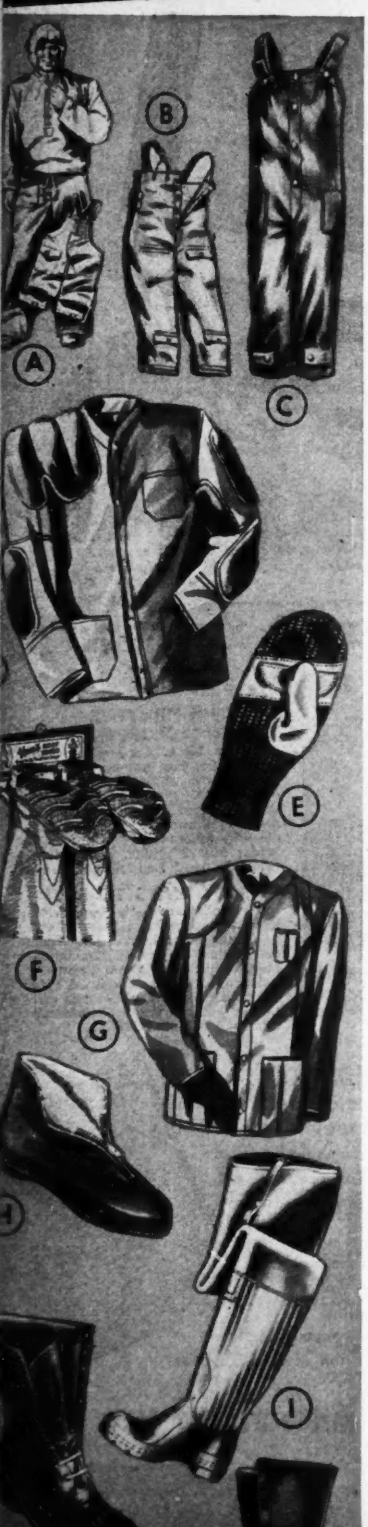

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[B] **U. S. A. A. F. Flight Pants.** The cost to the Government was approximately $22.00 pair. Water repellent dark green lightweight gabardine, fully lined with warm alpaca. Medium and large sizes.
AD-3115 State size wanted.............................. **$4.88**

[C] **New Navy Jungle Pants.** Water and wind repellent. Heavily lined with 100% wool blanketing. Full talon zipper from crotch to top of bib with buttoned down flap. Perfect for hunters, fishermen, farmers, etc. Small, medium, large sizes. State size. Original cost to Gov't. $15.
AD-3117 .... **$3.95**

[D] **10X Imperial Rifleman's Coat.** Genuine shiny army twill. Self-adjusting back tension. Stabilized pulse beat control sling pad. New shoulder pad. New shaped sleeves. Bi-swing back. Soft wool felt pads covered with genuine top grain cowhide. Five-button front. Three roomy pockets. State chest measurement.
AD-3060 Postpaid **$15.00**

[E] **Knitted Shooting Gloves.** All wool with buckskin split leather grip; slot in palm gives instant use of fingers. Medium heavy weight. Red only.
AD-3700 State size **$1.19**
Same as AD3700 with horsehide palm.
AD-3702 .... **$1.98**

THE BOOT SAVER

[F] Take care of your boots and shoes and they'll give longer wear! Order a boot saver now—a neat, compact, sturdy metal device for drying and preserving boots and other outdoor footwear of all kinds. Folds compactly for easy packing in pocket or suitcase.
AD-1620 Postpaid **$1.00**

[G] **10X Imperial Jacket.** The king of all skeet and trap shooting jackets. Meticulously made of genuine, shiny army twill. Will not shrink. Regulation government khaki shade, vat dyed. Five-button front. Roomy pock
State chest measurement.
AD-3061 Postpaid **$11**

WARM FLEECE BOOT SOX

[H] Designed to be worn inside of leather boots work shoes to make the warmest footgear kno to hunters, hikers, campers and outdoor workers exp to severe colds. Also used by fishermen inside their rubb boots or waders. The deep, soft fleece which envel your feet in warmth is one of the greatest comforts a outdoorsman can have. Sizes 7, 8, 9, 10, 11, 12.
AD-3363 .... **$2**

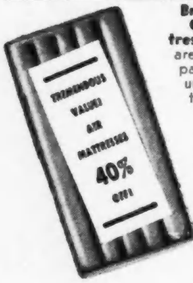
CONVERSE "ROD AND REEL" HIP BOOTS

[I] The Rod & Reel is "tops" with sportsmen who d mand the ideal combination of comfort, light wei and wear. The perfect boot for fishermen and duck hu ers. Cleated sole for sure footing; comfort cushion inso lightweight uppers; inside knee harness and snaps top band to prevent flapping when rolled down. Se hard toe cap. Olive drab color. Sizes 6 to 12. State s
AD-3940 Pair **$10**
AD-3940B Genuine Rubber Hip Boots. Slight Fac Seconds. State Size.............................. **$7**

SPORTSMAN PAC WITH COWHIDE UPPERS

[J] One of the toughest wearing hunting, fishing, cam ing or work boots ever made. The heavy, oil-tann water-proofed cowhide upper is securely stitched to all-rubber bottom, which has a thick, non-slip sole, f year 'round wear. 12" height. Size 7 to 12 (no h sizes); wide width. State size.
AD-3300 Pair **$6**

[K] **Russell Deluxe "Bird Shooter."** For bird hunti squirrel shooting, rabbit hunting. They are actua as "light as a feather" on your feet and as quiet as stalking Indian. Being a true Russell Moccasin, com speaks for itself. They are the "clear rig" for fishi hiking and general outing. Men's 9 in. made of bl waterproof chrome; Never-Rip toe seams; counters; li weight leather insoles; non-slip Gristle soles and hee Sizes 6 to 12 including half sizes. Please state s wanted when ordering.
AD-3306 Postpaid **$21**



Brand New, Super-DeLuxe Quality. Lightweight Air Mattresses. 40% off only because they are slight seconds—factory repaired, completely serviceable—unconditionally guaranteed airtight. Real sleeping comfort for camping and outdoor use. Just right for surf-riding, for resorts and outfitters. Folds down to small compact size. Waterproof, lightweight, rubberized fabric. Concealed air-valve.
AD-9000 26"x48" (Reg. $13.50) now **$7.95**
AD-9002 25"x72" (Reg. $16.50) now **$9.95**
AD-9003 25"x75" (Reg. $18.50) now **$10.95**

- FREE -

BIG BARGAIN SPORTS CATALOG

NEW—Fall and Winter—1948-49—Klein's Sporting Goods Big Catalog Includes available new and used Gun List, Gun Trading information from America's Greatest Gun Traders. Thousands of sports items (a few of them presented here), for all sportsmen! Fill out and mail coupon on page 60 at once. Limited quantity of catalogs available . . . hurry!

FAMOUS RED HEAD BRAND WATERPROOFED HUNTING CLOTHING

ORDER EARLY FOR XMAS!

RED HEAD "BONE DRY" HUNTING COAT

Forest-brown, waterproofed duck. Styled with bi-swing action back, pivot sleeves, adjustable cuffs (corduroy lined), two large outside pockets and a small whistle pocket; fine ribbed corduroy collar. Ventilated under arms. Three large blood-proof game pockets; rear pocket entered from outside. Vulcanized rubber lining throughout, including sleeves. Weighs only 4¼ lbs., making it ideal for both field and water-fowl shooting. 24 shell loops above side pockets. Complete size range. Postpaid.
AD-3000 Order by regular coat size. **$15.50**

RED HEAD "BONE DRY" BREECHES

With elastic bottom that eliminates the bother and discomfort of stooping over to lace up. "Bone Dry" breeches are really bone-dry! Plenty of ventilation because rubber is used only where rubber belongs.
AD-3101 State your waist measurement.
Postpaid **$9.00**

"BONE DRY" ZOUAVES

Made of the same material and with all the features of the Breeches but in the popular Zouave style with knitted wool cuff.
AD-3100 State your waist measurement.
Postpaid **$10.25**

"BONE DRY" STRAIGHT PANTS BY RED HEAD

For hunting or fishing. Same material and features as Breeches except regular trouser style.
AD-3106 State your waist measurement.
Postpaid **$10.25**

RED HEAD SHELL VEST

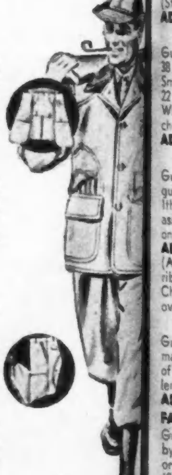
Heavy waterproof Duck of the highest grade. 38 shell capacity, depending on size. Forest Brown, 12, 16, 20, 28 or 410 ga. State gauge and size wanted.
AD-3801 Sizes 38 to 48.............................. **$2.95**

ARMY DUCK HAT-CAP

Popular number for hunting or fishing. Wear it with brim down as a hat or up as a cap. Stitched all around. Forest brown.
AD-3204 State your regular hat size.
Postpaid **$1.70**

DEER STALKER CAP BY RED HEAD (not illustrated)

Made by Red Head of water repellent brown army duck. Back half of crown turns down exposing bright red, water repellent drill lining. Corduroy lined ear flaps.
AD-3203 State your regular hat size.
Postpaid **$1.70**



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227 W. WASHINGTON ST., CHICAGO 6

SEE ORDER COUPON ON PAGE 60

NTA SAYS: KLEIN'S WILL REFUND THE FFERENCE IN PRICE, IF YOU CAN BUY ANY TICLE IN THIS CATALOG ELSEWHERE FOR SS THAN KLEIN'S PRICE!

YES! IT'S A WOOLRICH! FAVORITE LUMBERJACK SHIRT! 100% WOOL!

We scoured the country to bring you the biggest, heaviest, longest and toughest wearing shirt on the et. And here it is . . . the best shirt value we could . . . more shirt, dollar for dollar, than we ever ed we could offer . . . a product of famed rich Woolen Mills, who have loomed and tailored woolens for generations of sportsmen.

BIG SHIRT in every way—full cut, roomy and long—g, old-fashioned shirt tails.

EAVY 14 oz. 100% WOOL Buffalo Plaid. ★ Colors: ed and Black or White and Black.

zes 14 to 18 (no half sizes)

500 Specify color and size, Postpaid.........**$6.95**

NEW RIFLESCOPES

AD-1248	Weaver G4-4x with mounts. Postpaid	**$9.75**
249	Weaver G6-6x with mounts. Postpaid	**$12.50**
247	Weaver J2.5 no mounts. Postpaid	**$22.50**
242	Weaver J4 no mounts. Postpaid	**$27.50**
243	Weaver K2.5 no mounts. Postpaid	**$37.50**
244	Weaver K.4 no mounts. Postpaid	**$45.00**
241	Weaver K6 no mounts. Postpaid	**$48.50**
250	Lyman Alaskan Scope. Postpaid	**$60.00**
261	Mossberg. 4 Power Riflescope	**$9.95**

(All popular mounts in stock—write for prices)

"GUARANTEED FOREVER"

ARMY AIR CORPS TYPE SUN GLASSES. Brand new 24K. gold plated frames with pyralin Sweat Adjustable nose pads. Optically ground lenses. plete with leatherette case and lifetime guarantee.

037 Postpaid **$2.95**

RAY-BAN SHOOTING GLASS

030 Postpaid **$15.00**

RAY-BAN SKEET GLASS

032 Postpaid **$12.50**

TAYKIT—THE FIRST REAL POCKET STOVE

Specifications and Features: 1. Closed size 1⅞" x 4½" x 5"; 2. Made of gleaming buffed Monel nless steel), with solid brass fuel tank and burner. ights immediately, burns with a steady hot blue flame. ngle unit burner maintains pressurized blue flame without pumping, priming or other attention. 5. Strong, rattle-proof. Wear, rust, salt and acid resisting. 6. Monel case resists heat, remains cool so that stove can be handled comfortably while in use. 7. Burns more than 100 minutes with one filling of any type of gasoline. 8. It can be used outdoor or indoor. 9. TAYKIT is thoroughly tested and sold on an unconditional money back guarantee! 10. It now has the new Flame Control!

AD-1685 Postpaid anywhere in the U. S...........**$6.95**

SALE!

GUARANTEED

USED GUNS!

GREAT GUNS! SPECIAL $39.95 GROUP

Guaranteed used 9 mm Walther (P38), 9 mm Lugers, Browning, Sauer 32 pocket automatics, Czech and Walther PP32 automatic, Sauer 32 automatic—all in excellent condition. Included are very good Colt 45 automatics and Colt 32 automatics. Also Smith and Wesson M&P 38 Special and 32-20 caliber revolvers. (State choice).

AD-2705 Each **$39.95**

SPECIAL BUYS AT $44.95!

Guaranteed used very good condition Colt 38 Super Automatics, 45 Colt Automatics, Smith & Wesson 38 Specials, High Standard 22 Automatics Model HDM. Also Smith & Wesson or Colt 45 caliber revolvers. State choices of caliber and barrel lengths.

AD-2706 Each **$44.95**

BEST QUALITY PUMPS—$69.95!

Guaranteed used pump action repeating shotguns, made by Winchester, Remington or Ithaca. Available in 12, 16 or 20 gauges in assorted barrel lengths. (State choice) Pay only $6.00 per month.

AD-2721 Excellent. Each **$69.95**

(Add $12 to price of gun for raised matted rib on gun if wanted. Add $14.75 for Poly Choke or Cutts Compensator if wanted. State over-all barrel length desired.)

DOUBLE BARREL SHOTGUNS—$79.95!

Guaranteed used Double Barrel shotguns, made by Fox, L. C. Smith, Ithaca. Choice of 12, 16, 20 and 410 gauges, assorted barrel lengths. (State choice)

AD-2715 Excellent. Each **$79.95**

FAMOUS AUTOMATIC SHOTGUNS—$84.95!

Guaranteed used Automatic Shotguns, made by Remington or Browning. Available in 12, 16 or 20 gauges in assorted barrel lengths. (State choice)

AD-2727 Excellent. Each **$84.95**

SALE! PRICES SLASHED ON NATIONALLY KNOWN

FISHING TACKLE! REELS!

[E] **AD-4277**	Heddon "Pal" reel with removable head ring. Postpaid	**$13.50**
AD-4059	Shakespeare President Reel. Postpaid	**$30.60**
AD-4050	Light Wondereel, Postpaid	**$9.60**
AD-4140	Coxe Model 25C Reel. Postpaid	**$29.95**
AD-4000	Pflueger Supreme Reel, Postpaid	**$33.25**
AD-4003	Pflueger Nobby Reel, Postpaid	**$10.45**
AD-4004	Pflueger Skilkast Reel, Postpaid	**$9.50**
AD-4039	Pflueger Rocket Reel, Postpaid	**$13.50**
AD-4278	Ashaway Slip-Cast Spinning Reel, Postpaid	**$22.50**
AD-4278B	Ashaway Surf (Deep-Sea) Slip-Cast Reel, Postpaid	**$35.00**
AD-4020	Pflueger Medalist Single Action Fly Reel Model 1494. Postpaid	**$8.55**
AD-4021	Pflueger Medalist No. 1495. Postpaid	**$8.95**

SALE! DEEP SEA AND TROLLING REELS

AD-4210A	Ocean City Bay City, 400 yd. capacity	**$8.95**
AD-4211	Ocean City Seattle, 250 yd. cap.	**$8.95**
AD-4215	Ocean City No. 990, 150 yd. cap.	**$5.95**
AD-4210B	Ocean City Bay City, 600 yd. cap.	**$11.95**
AD-4272	Premax Trolling reel	**$1.49**
AD-4152	Coxe Model 325L, 250 yd. capacity	**$6.95**
AD-4048	Pflueger Pakron single action trolling reel	**$10.45**
AD-4031	Pflueger Akerite	**$15.69**

FINEST BINOCULARS—WITH CASES

[F] **AD-8020**	Bausch and Lomb 7x50 Binoculars	**$175.00**
AD-8021	Bausch & Lomb 6x30 Zephyr-Light	**$155.00**
AD-8022	Bausch & Lomb 7x35 Zephyr-Light	**$155.00**
AD-8024	Bausch & Lomb 8x30 Zephyr-Light	**$170.00**
AD-8025	Bausch & Lomb 9x35 Zephyr-Light	**$170.00**
AD-8055	French 8x26 Prism Binoculars	**$32.50**
AD-8055B	French 8x34 Prism Binoculars	**$49.95**
	(Add 20% Excise Tax on all Binoculars)	
AD-8007	Mossberg "Spotshot" Spotting Scope	**$22.30**
AD-8009	Mossberg Stand for "Spotshot"	**$9.95**
AD-8005	Argus Super Grade Spotting Scope	**$74.50**
AD-8006	Freeland Type Stand for Argus Scope	**$8.50**
AD-8008	Leather Case for Argus Scope	**$15.00**
AD-8010	Bausch & Lomb Prismatic Spotting Scope with retractable sun shade. 20x with 60mm objective lens. Postpaid	**$95.00**

PACHMAYR HAND-GUN CASE

[G] Holds four hand-guns, plus scope and accessories. Beautifully and sturdily made. Flannel lined for full protection to guns. Compact and light weight.

AD-1436 ....**$19.75**

[H] **FULL LENGTH SHEEPSKIN CASE.** Made from heavyweight hides with a smooth outside finish for longer wear and deep, natural fleece on the inside for keeping your guns safe from knocks and scratches. Full leather binding. Funnel opening. Leather handle. The action of the gun is protected by a large patch of leather. Muzzle protector has a lined bottom. For 37" to 52" (overall length) rifles and shotguns. State length wanted.

AD-1012 ....**$6.95**

AD-1013 Same but for rifles with 'scopes........**$8.95**

[I] **FINE CARVED HOLSTER.** Mexican hand-carved loop style belt holster of finest Oak Tanned California skirting leather. Hand thong wrap stitched edge. Unlined. Has safety strap with snap button. For revolvers (open end) or automatics (closed end.) State make, model and barrel length of your gun.

AD-1065 Postpaid **$4.95**

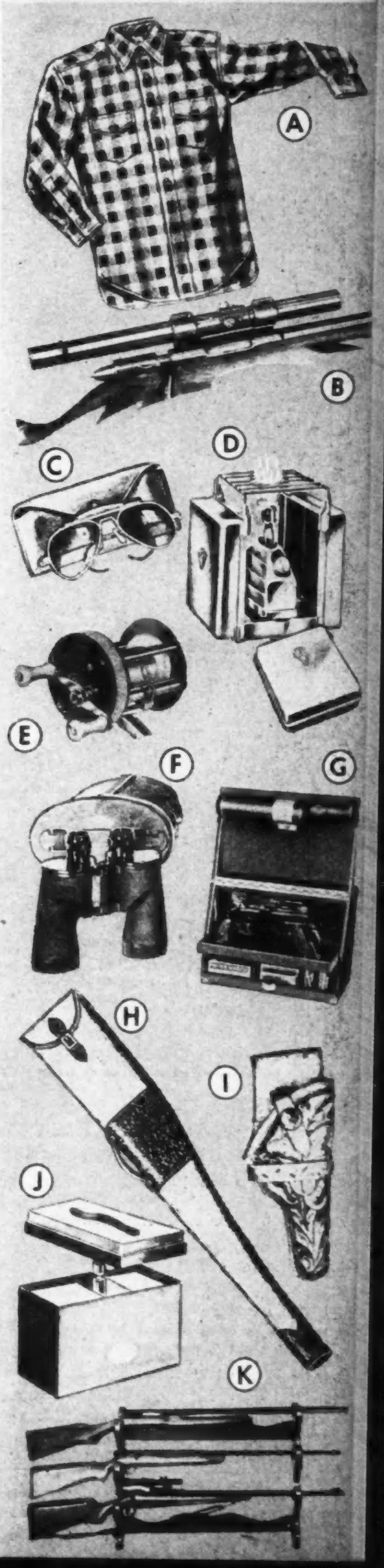
[J] **SHELL BOX WITH REVOLVING SEAT.** The cover, which is a comfortable seat of sponge rubber rises automatically to two different heights. Revolves so that you can instantly swing into position when shooting; ideal for duck blind or boat. Size of box 12 x 6 in.; height closed 10½ in., open 12¼ or 15½ in. Olive green baked enamel finish over heavy gauge, watertight metal. Leather handle that lies flat when used as a seat.

AD-1472 Weight 7½ lbs.........................**$6.75**

[K] **"PEQUOT" WALNUT GUN RACK.** Beautifully finished with a high polish to the well-grained wood. A good-looking practical addition to any gun lover's den. Comes knocked down; easily, quickly put together with metal screws, which are furnished. Screws to wall.

AD-1355 For 4 guns.........................**$7.95**

AD-1355A For 6 guns.........................**$9.95**



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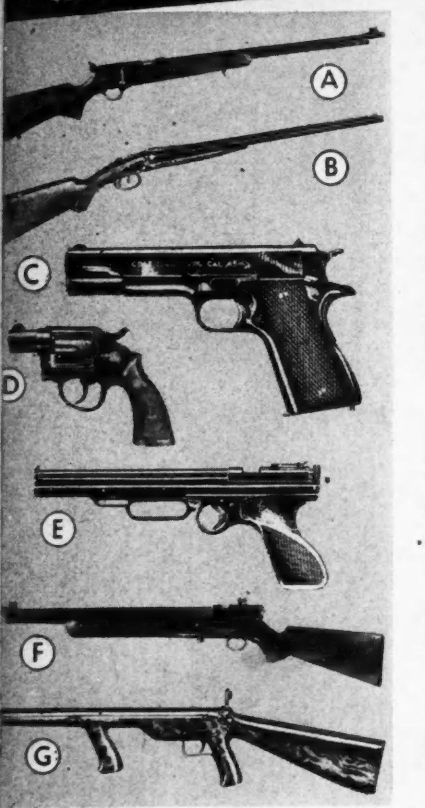
IMMEDIATE DELIVERY - NEW GUNS - LATEST MODELS - LOWEST PRICES



[A] ***Marlin Model 81DL Rifle.*** 25 shot, 22 caliber tubular magazine repeater. Bolt Action. Peep Sights.

AD-2046 Postpaid **$26.95**

AD-2044 Marlin 80DL, 8 shot Bolt Action Clip Repeater. Peep Sights. Postpaid..................**$22.90**

[B] **L. C. Smith Double Barrel Shotgun.** All stocks are of selected, seasoned walnut . . . beautiful and strong. Full pistol grip. Gauge: 12, 16 or 20. Barrels: 26, 28 or 30 inch Armour Steel (26'': Improved Cylinder and Modified: 28'' and 30''; Modified and Full). State Choice.

AD-2500 Postpaid **$96.10**

[C] **Colt .45 Cal. Automatic Pistol.** The Colt Government Model is the most famous automatic pistol in the world. In its dependable action, under severe military conditions, its accurate performance on the target range, the Colt .45 has an enviable record of achievement.

AD-2285 Postpaid **$65.00**

Colt .38 Super Automatic Pistol. Built on the same frame as the .45 Automatic, as mentioned above. Shoots .38 Super Automatic Cartridges.

AD-2283 Postpaid **$65.00**

Hi Standard 380 Automatic Pistol, 5'', Blued, Visible Hammer. New. (Not Illustrated)..................**$55.00**

AD-2287 Colt 45-22 Conversion Unit. Postpaid..**$40.00**
(Converts Colt 45 Auto. or 38 Super to 22 caliber, Automatic)

[D] **Smith & Wesson Military and Police Revolver.** 6-shot; chambered for .38 S.&W. Special (also .38 Colt. Special .38 Short or Long Colt). Available in 2, 4, 5 and 6 inch barrels. Fixed front and square notch rear sights. Checkered walnut square butt stocks. Blued finish. (2'' Barrel Illustrated)

AD-2303 Postpaid (State choice)...............**$56.50**

[E] **Crosman "Bull's Eye" Target Air Pistol.** Single Shot Air Pistol that gives "power without powder." Truly an expert's gun. Deadly accurate at ranges up to 30 feet. It is moderately priced and uses inexpensive lead pellets .177 cal. or 22 cal.

AD-2276 Postpaid **$14.95**

NEW! THE CROSMAN "TOWN and COUNTRY" RIFLE

[F] America's newest and finest High Powered Rifle, combining greater Power and Velocity plus light beam accuracy. Features target peep and open "V" rear sight, and instantly selective blade and ramp front sights. Shoots 22 or 177 caliber lead pellets. (State choice) Weight 6 lbs. 9 oz. Walnut Stock.

AD-2260 Postpaid **$24.95**

AD-2980 .22 Cal. Crosman Super Pells.
500 for **$1.85**

AD-2981 .177 Cal. Crosman Super Pells.
500 for **$1**

SPECIAL!

[G] **Johnson Indoor Target Gun.** A complete Home "Shooting Gallery" in one package. Most accurate gun of its kind ever designed . . . and the safest. Set includes gun targets, "shot-saver" backstop, 65 rounds of Johnson Micro Match precision pellets, and extra propulsion unit.

AD-2256 Postpaid, Complete. $15.00 Value
Special Sale Price.................. **4.95**

(Plus 50¢ per gun for Packing and Handling)

SCOOP! SCARCE AMMUNITION! 8 mm Mauser Cartridges, Smokeless Powder, Soft Point. Price inclu wooden container. 20 to Box (Limit 10 Boxes to e customer. Per Box (Not Prepaid).................**$3**

9 mm Luger Cartridges, fits all 9 mm Luger and Automatic Pistols. Smokeless. Per Box of 50 (Limit boxes) (Not Prepaid).............................**$4**

MORE BRAND NEW GUNS!

AD-2265 Boone Target Air Pistol. Shoots BB's. Postpaid **$4**

AD-2266B The "Sharpshooter" Bulls Eye Target Pistol. Shoots No. 6 shot...............................**$1**

AD-2267 Sportsman Jr. Air Pistol...................**$3**

AD-2268 Daisy "Targeteer" Air Pistol...............**$2**

AD-2160 Boy's 22 Bolt Action Rifle..................**$10**

AD-2460 Remington Pump, 22 shotgun...............**$41**

AD-2580 H&R "Topper" Single Barrel Shotgun, all gauges **$21**

AD-2144 Mossberg 151M Autoloading 22 Rifle..**$3**

AD-2146 Mossberg 152 Autoloading 22 Rifle.....**$2**

AD-2286 Colt Official Police 38 Spec. Revolver, 4'', 5'' & 6'' brl. Lengths..................................**$6**

AD-2210 Marlin Model 336 Carbine, 30/30 caliber or 32 spcl...**$5**

AD-2211 Marlin Model 336A Rifle, 30/30 caliber or 32 spcl...**$6**

AD-2420 Winchester Model 12 Pump, all gauges.**$8**

AD-2401 Remington Automatic Shotgun, all gauges **$9**

AD-2361 Iver Johnson Super Shot Sealed 8 Target 22 Revolver, 6'' barrel..............................**$3**

AD-2360 Iver Johnson Sealed 8 Target 22 Revolver **$2**

AD-2275 Hy Score Target Air Pistol; 177 or 22 cal...**$1**

AD-2960 New Extra Barrels for Automatic Shotguns **$3**

Cutts Comp—Weaver Choke—Poly Choke—Power
All Are AVAILABLE. Send Your Barrel To Klein's!

MAIL TO: Dept. 511

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ESTABLISHED 1885

USE THESE COUPONS

SATISFACTION GUARANTEED OR YOUR MONEY BACK

FREE! OUR GIFT TO YOU! FAMOUS MARBLE 100% WATERPROOF MATCH BOX—LIMITED QUANTITY! Matches always dry and ready for instant use. Easily carried in pocket. Seamless nickel-plated brass. Ring allows box to be fastened to belt-strap or chain. FREE WITH EVERY ORDER. (LIMIT—1 TO EACH CUSTOMER).

Mail to Klein's Sporting Goods, Inc., Dept. 511, 227 W. Washington St., Chicago 6, Ill.

10-DAY FREE EXAMINATION and Monthly Payment Mail Order Coupon

YOU MAY EXAMINE ANY OF THE GREAT VALUES IN THIS SPECIAL N. R. A. CATALOG FOR TEN DAYS BEFORE DECIDING WHETHER YOU WISH TO KEEP THEM! There are no strings attached to this offer.

Rush me.............................. No.................. Size..................
(Use separate sheet of paper for additional items)

At the end of ten days, if I have not already returned the merchandise to you in the same condition in which I received it, I will send you my remittance in full payment.

Signature: ....

Occupation: ....Age..............

☐ Enclosed is 25% Down Payment. I want to use the Easy Payment Plan. I will pay the balance $..............................monthly. (Fill in amount you can afford.) Please state your exact occupation and length of employment. If you work on a farm, order must come from farm owner.

WRITE FULL NAME AND ADDRESS, AGE, AND OCCUPATION ON SEPARATE SHEET AND ATTACH.

NO FREE EXAMINATION OR EASY PAYMENT PLAN ORDERS CAN BE ACCEPTED FROM PERSONS UNDER 21 YEARS OF AGE.

(ARTICLES NOT MARKED "POSTPAID" WILL BE SHIPPED SHIPPING CHARGES COLLECT BY PARCEL POST OR EXPRESS)

☐ **Free! Send me the Big Klein's Sporting Goods Complete Catalog**

Mail to Klein's Sporting Goods, Inc., Dept. 511, 227 W. Washington St., Chicago 6, Il

CASH or C.O.D. MAIL ORDER COUPON

Rush me.............................. No.................. Size..................
(USE SEPARATE SHEET OF PAPER FOR ADDITIONAL ITEMS)

ENCLOSED IS $.............................. ☐ CHECK ☐ MONEY ORDE
☐ SHIP C.O.D. for my inspection at the R. R. Express Agency.

MY NAME ....

ADDRESS ....

CITY, ZONE, STATE...

IMPORTANT NOTICE to PURCHASERS of FIREARMS or AMMUNITION ONL

Kindly sign the following statement, which is in accordance with the regulations the Federal Firearms Act: "I am not an Alien, and I hereby state that I have ne been convicted in any court of the United States or any of its possessions of a cri of violence, nor am I at present under indictment or a fugitive from justice." (**Guns or Ammo. sold to Minors.)**

SIGNATURE ....

OCCUPATION ....AGE..................
(Send your State or City Pistol Purchase Permit, if required.)

Be sure to sign and include statement with any gun or ammunition or

☐ **Free! Send me the Big Klein's Sporting Goods Complete Cata**

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance,* made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: November 1st for the December issue. Ads received after November 1st and not later than December 1st will be inserted in the January issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

5. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics, or the attempt to circumvent these general requirements, will result in refusal of further advertising and might result in disbarment from the NRA, in the case of members.

6. Blind Ads Not Acceptable: Blind ads, with box numbers *only,* will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

7. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30. 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel). Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

8. Responsibility for Illegible Copy: Type or print ads plainly, for we can not be responsible for errors due to illegible writing.

9. Firearms for Sale or Trade Should Be Properly Described: We urgently recommend that the *condition* of every gun (including essential parts) advertised for sale or trade, be clearly indicated in accordance with the following *NRA standard descriptions:* PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition; implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

We further recommend that when price lists or catalogs are offered, the *condition* of every weapon or item so listed be properly described in accordance with these NRA standards.

WARNING TO PURCHASERS: The National Rifle Association *will accept no responsibility whatever* for *any* unsatisfactory transactions involving guns or other items which have not been described in accordance with the foregoing NRA standards. It is therefore important for purchasers to *insist* that sellers give full and complete descriptions of all items in accordance with these standards—*before* any such transactions are consummated.

10. Privilege of Examination: Requesting shipment by express C. O. D., *with examination privileges* will permit the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. "Outlawed" Firearms Cannot Be Sold: Federal statutes forbid the sale or trade of all machine or submachine guns; sawed-off rifles and shotguns with barrels of less than 18", and Mauser and Luger auto pistols *with holster stocks*—except by a Federally licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code.

In addition, the NRA has adopted a policy of not accepting advertisements covering small semi-automatic pocket pistols, or short barreled revolvers, which have no practical value as target, police or military weapons.

12. Fair Trade Laws: All states with the exception of Missouri, Texas, Vermont and the District of Columbia have Fair Trade laws which permit manufacturers to contract with their distributors to maintain standard retail prices. Dealers who fail to do so are subject to legal action.

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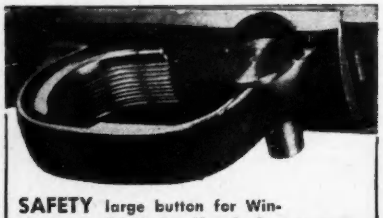

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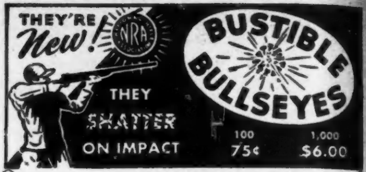

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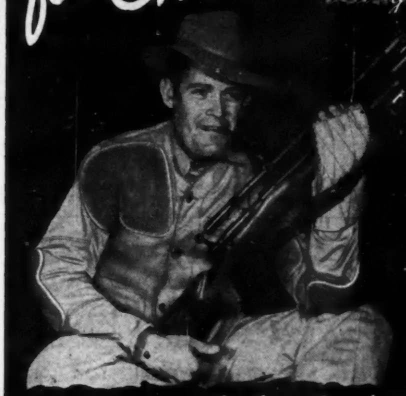

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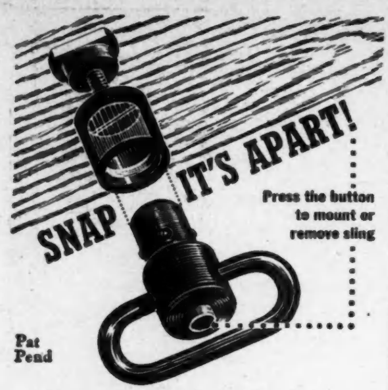
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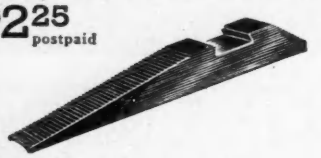

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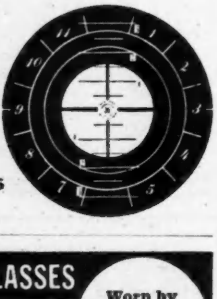

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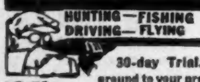

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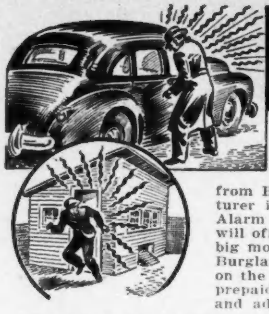

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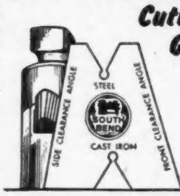

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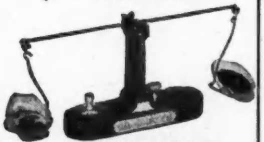

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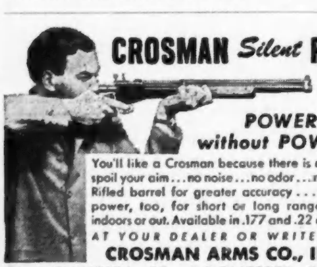

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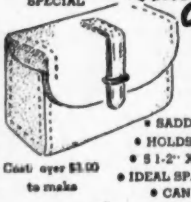

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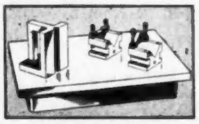

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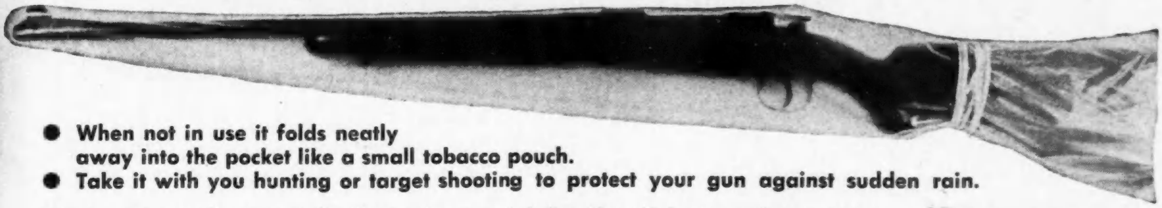

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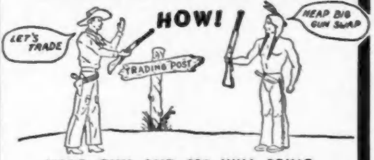

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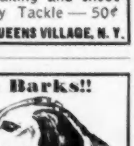

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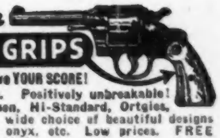

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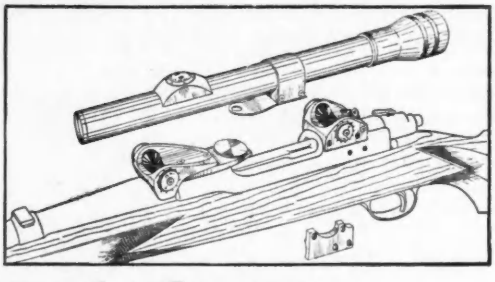

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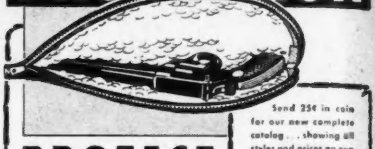

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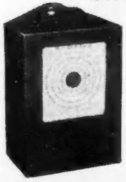

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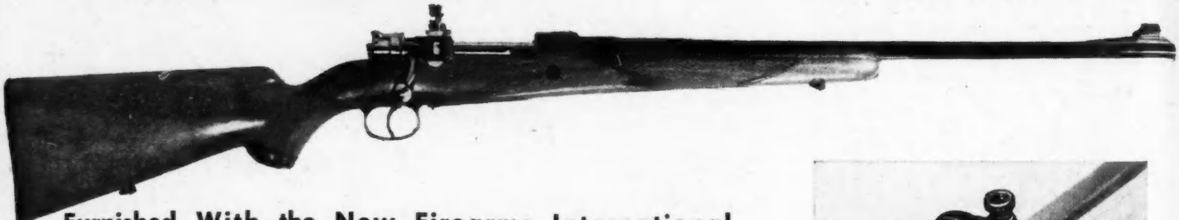

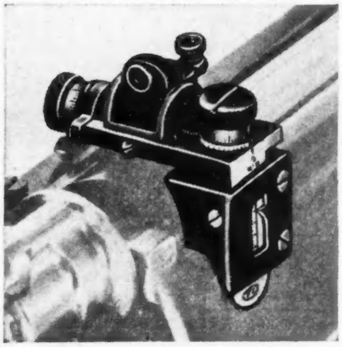

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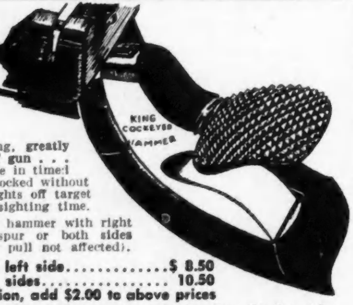

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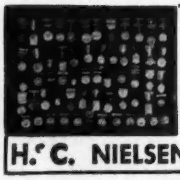

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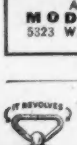

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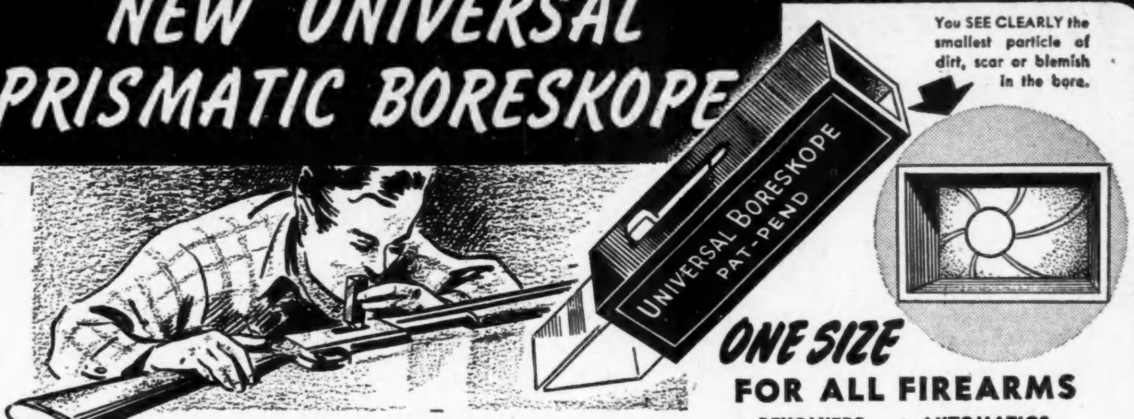

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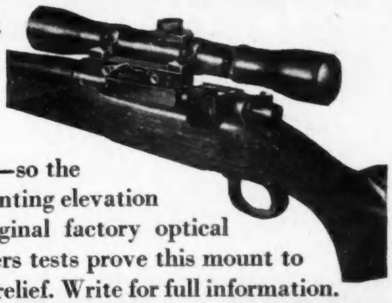

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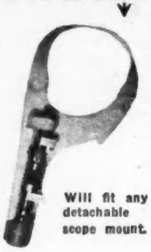

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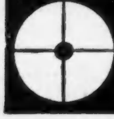

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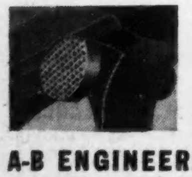

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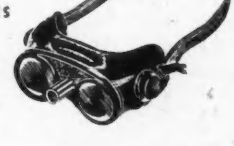

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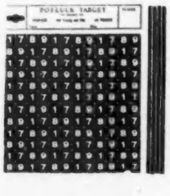

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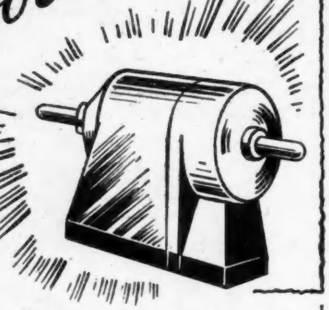

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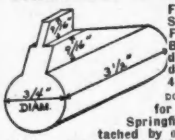

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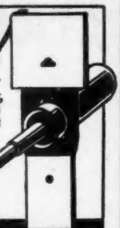

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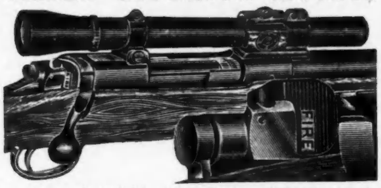

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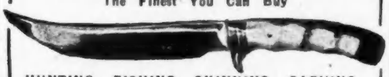

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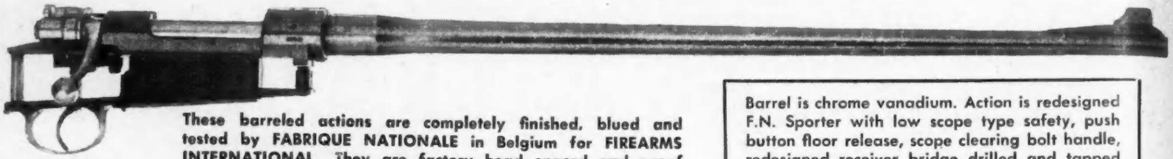

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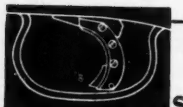

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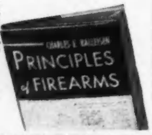

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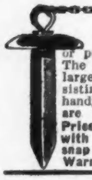

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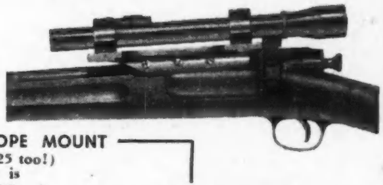

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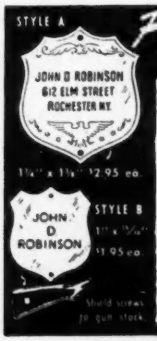

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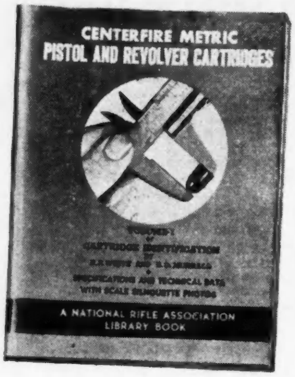
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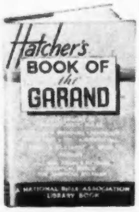

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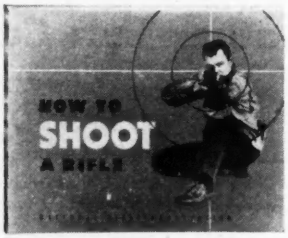

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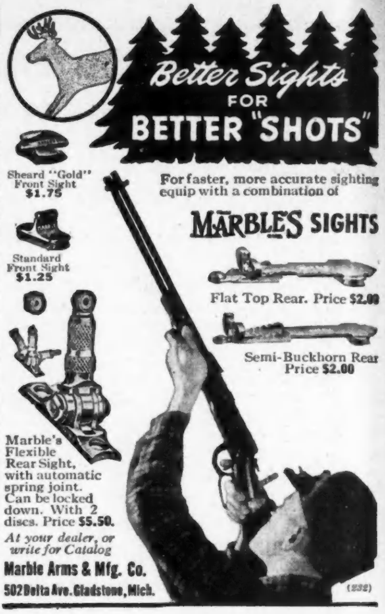

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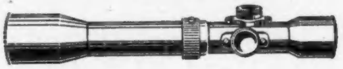

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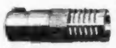

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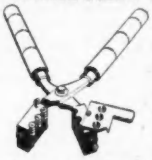

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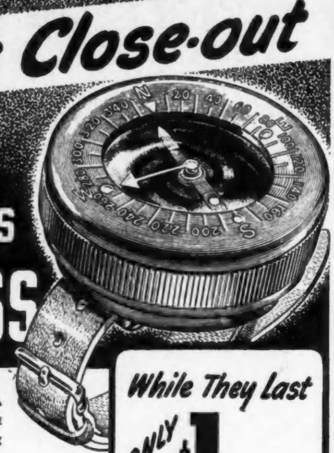

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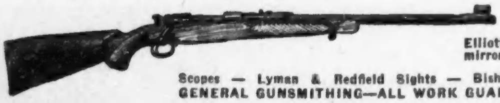

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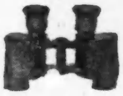

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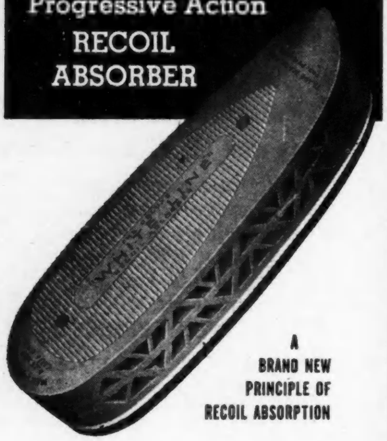

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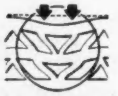
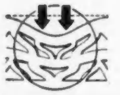


IT STRETCHES
Initial impact of recoil is absorbed by an *exclusive* stretching action.



IT COMPRESSES
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Utilizing stretch as well as compression to provide *progressive absorption* of recoil, the DELUXE "WHITE LINE" offers the first major improvement in recoil absorber design and performance in more than twenty years.

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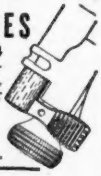

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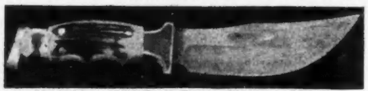

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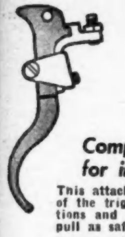

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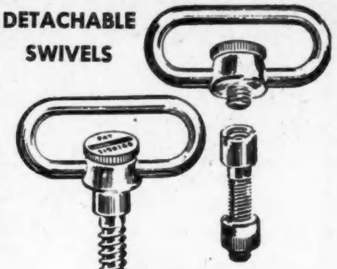

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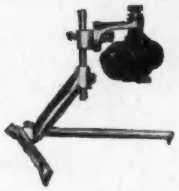

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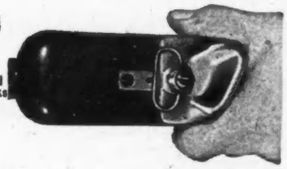

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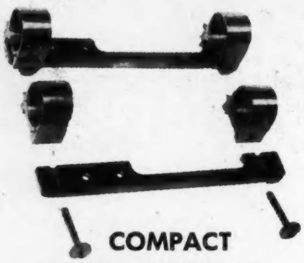

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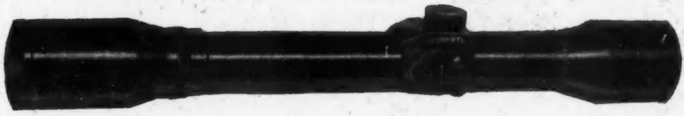

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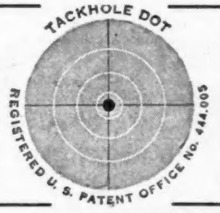
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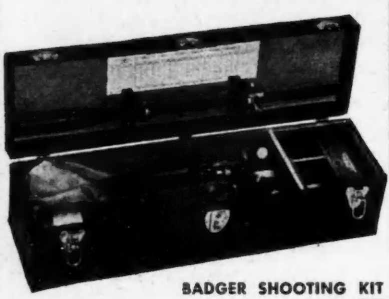

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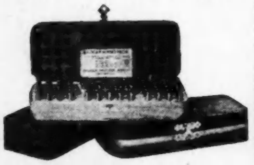

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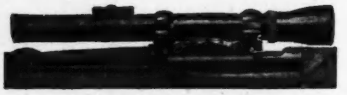

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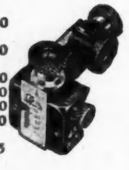

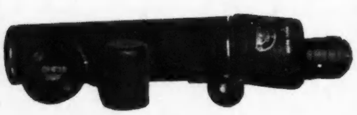

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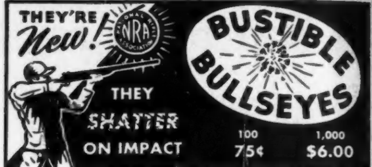

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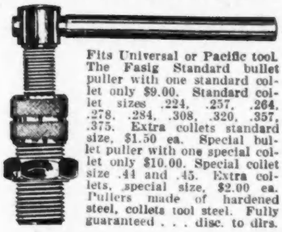
.300 Savage
.300 H&H Magnum
30 Newton
.303 British
32-20 Winchester
32 Win. Spl.
8 m/m Mauser
8X57 Rim Mauser
8.15X46R
32-40; .348 Win.
35 Whelen
35 Remington
35 Newton
9 m/m Rifle
9.3X62
.375 Magnum
38-40 Rifle
38-55; .401 Win.
.405 Winchester
45-70; 45-90
.218 Bee CCC.
.219 Zipper CCC.
.220 Swift CCC
22 Varminter CCC.
22 H.P. CCC.
22-06 CCC.
22 Magnum CCC.
.250 Savage CCC
.257 Roberts CCC
25 Krag CCC
25-06 CCC
25 Magnum CCC
.270 Win. CCC
27 Magnum CCC
7 m/m-06 CCC
7 m/m Mag. CCC
30-40 CCC
30-06 CCC
.300 H&H CCC
.348 CCC
.375-06 CCC
.375 Mag. CCC

Multi-Calibre Bullet Puller



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.357 Magnum
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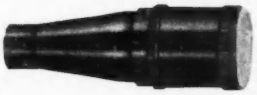

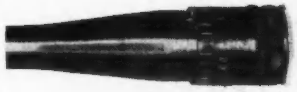

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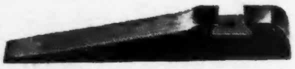

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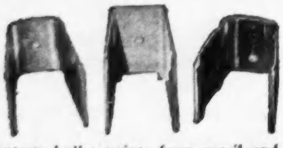

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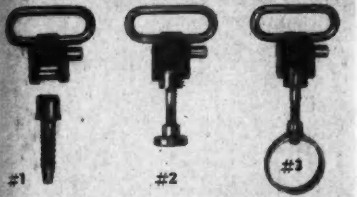

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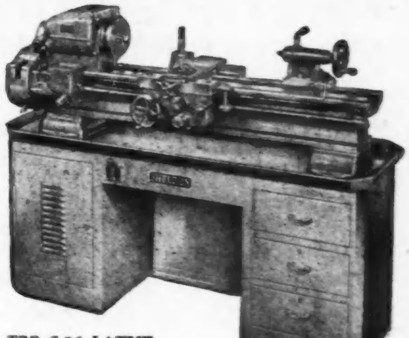

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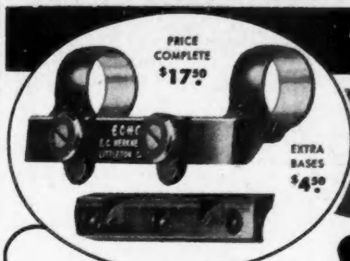

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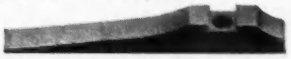

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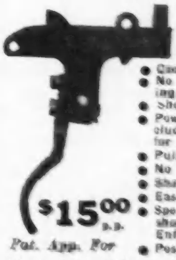

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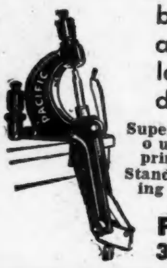

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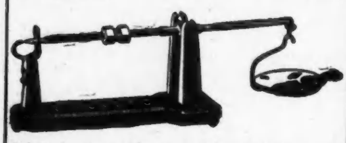

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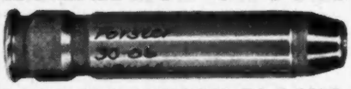

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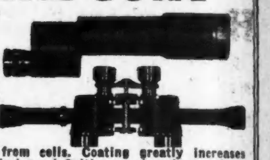

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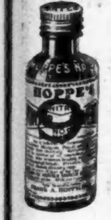

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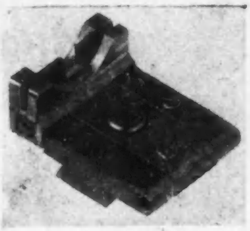

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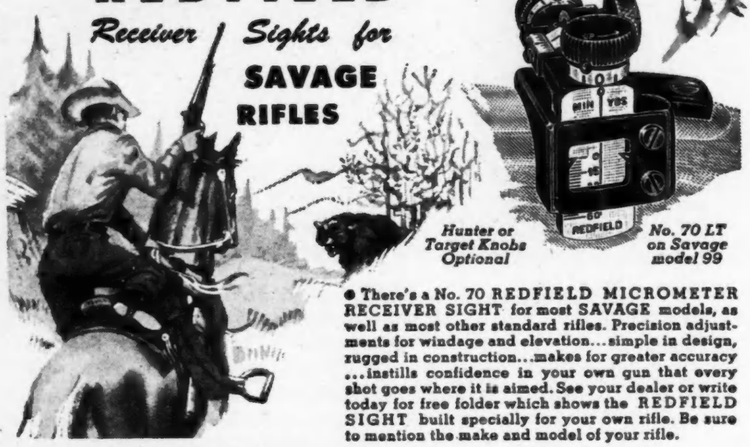
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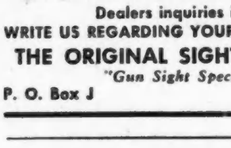

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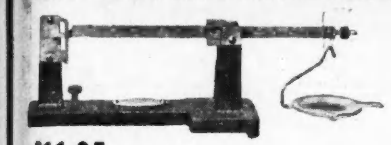

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These new scopes are precision made, have **COATED OPTICS, NEW ¼ min. click mounts,** and sliding-sleeve objective focusing adjustment. These scopes are made to fill a long felt need for a medium priced target scope that will really fill the bill. The "SPOT-SHOT" scope, with our **NEW** mounts, will give fine results in either target shooting or vermin shooting. Our new mounts have several mechanical improvements and finer finish. Write for our new literature.

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219 Zipper	22 Hornet	300 Savage	30-30 Winchester
219 Ackley Imp.	22 K Hornet	300 H & H Magnum	30-40 Krag
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236 Lee. U.S. Navy	6mm Gipson	8mm X 30-06	
25 Remington	250 Ackley Magnum	32 Remington	35 Remington
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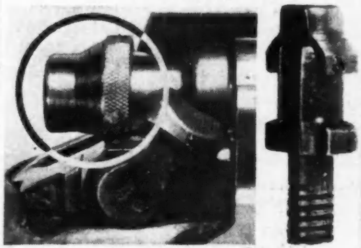

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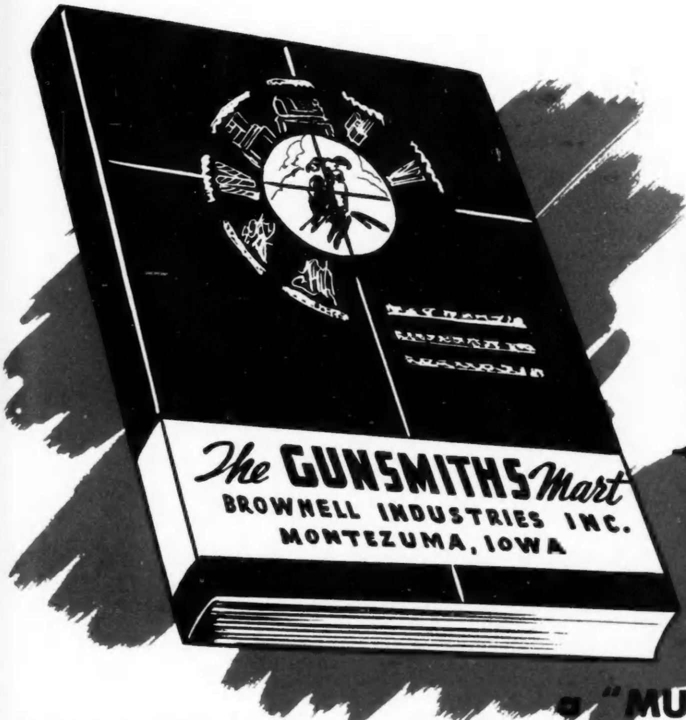

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